FIG. 1a

```
                                                                   nucleotide-binding
                                                                          loop
                                            αB           β1                      β2
EGF-R2    806   MDPDELPLDEHCERLPYDASKWEFPRDRLKLGKPLGRGAFGQVEADAFGIDKTATCR--   863
GFR1      456   ---MLAGVSEY--ELP-EDPRWELPRDRLVLGKPLGEGCFGQVLAEAIGLDKDKPNRVT   509
RK        978   ----------VFPCSVYVPDEWEVSREKITLLRELGQGSFGMVEGNARDIIKGEAE--T   1025
EGF-R1    799   MDPDEVPLDEQCERLPYDASKWEFARERLKLGKSLGRGAFGKVQASAFGIKKSPTCR--   856
DGFRα     576   -----------DPMQLPYD-SRWEFPRDGLVLGRVLGSGAFGKVEGTAYGLSRSQPVM--   622

                  β3             αC                       β4              β5
EGF-R2    864   TVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVVNLLGACTKPGGPLMVIVEFCKFGN   923
GFR1      510   KVAVKMLKSDATEKDLSDLISEMEMMKMIGKHKNIINLLGACT-QDGPLYVIVEYASKGN   568
RK        1026  RVAVKTVNESASLRERIEFLNEASVMKGFTCH-HVVRLLGVVSK-GQPTLVVMELMAHGD   1083
EGF-R1    857   TVAVKMLKEGATASEYKALMTELKILTHIGHHLNVVNLLGACTKQGGPLMVIVEYCKYGN   916
DGFRα     623   KVAVKMLKPTARSSEKQALMSELKIMTHLGPHLNIVNLLGACTK-SGPIYIITEYCFYGD   681

                   αD                     kinase insert domain
EGF-R2    924   LSTYLRSKRNEFVPYKTKGARFRQGKDYVG------------------------------   953
GFR1      569   LREYLQARRPPGLEYCYN------------------------------------------   586
RK        1084  LKSYLRSLRPEA------------------------------------------------   1095
EGF-R1    917   LSNYLKSKRDLFFLNKDAALHMEPKKEKME------------------------------   946
DGFRα     682   LVNYLHKNRDSFLSHHPEKPKKELDIFGLNPADESTRSYVILSFENNGDYMDMKQADTTQ   741

                                                                             αE
EGF-R2    954   ---AIPVDLKRRLDSITSSQSSASSGFVEEKSLSDVEEEEAPEDLYKDFLTLEHLICYSF   1010
GFR1      587   ---------------------------------------PSHNPEEQLSSKDLVSCAY   605
RK        1096  ---------------------------------------ENNPGRPPPTLQEMIQMAA   1114
EGF-R1    947   --PGLEQGKKPRLDSVTSSESFASSGFQEDKSLSDVEEEEDSDGFYKEPITMEDLISYSF   1004
DGFRα     742   YVPMLERKEVSKYSDIQRSLYDRPASYKK-KSMLDSEVKNLLSDDNSEGLTLLDLLSFTY   800
```

FIG. 1b

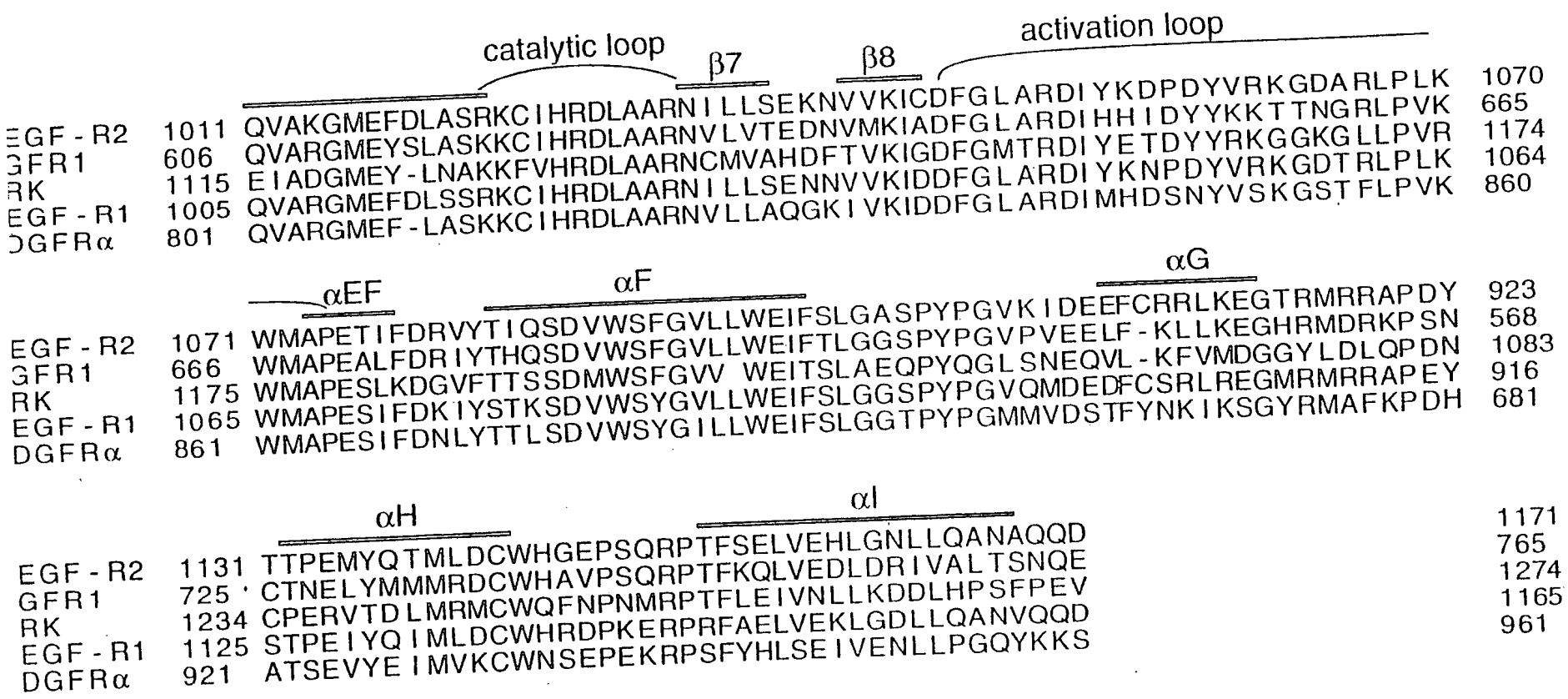
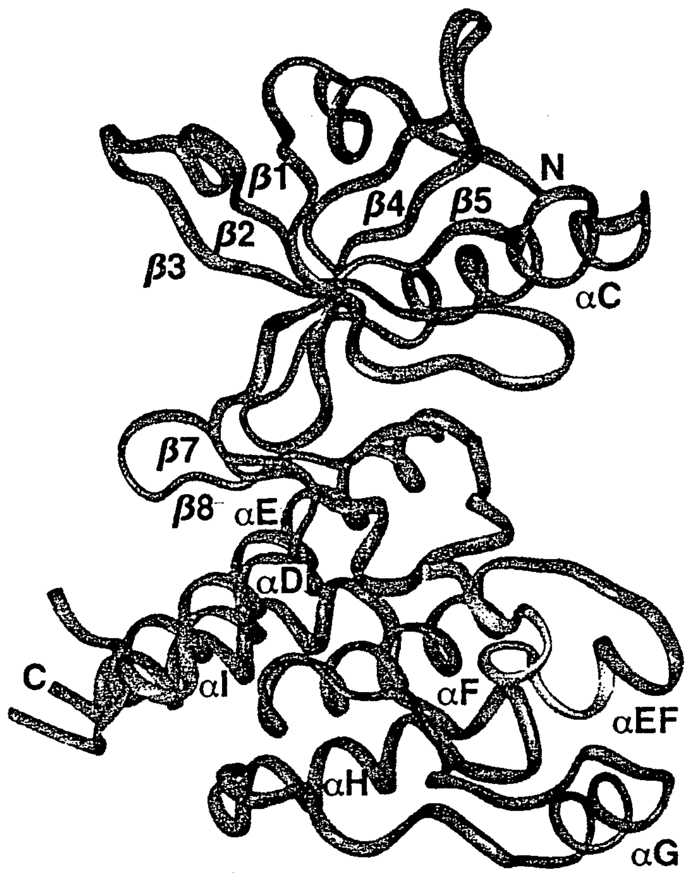
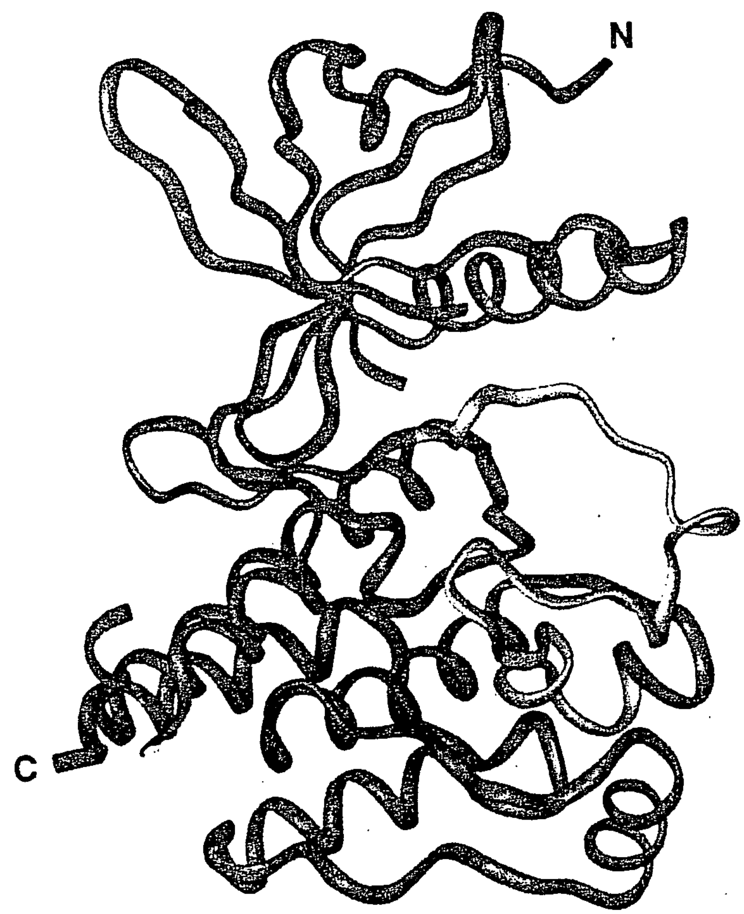

catalytic loop
β7
β8
activation loop
EGF-R2 1011 QVAKGMEFDLASRKCIHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLK 1070
GFR1 606 QVARGMEYSLASKKCIHRDLAARNVLVTEDNVMKIADFGLARDIHHIDYYKKTTNGRLPVK 665
RK 1115 EIADGMEY-LNAKKFVHRDLAARNCMVAHDFTVKIGDFGMTRDIYETDYYRKGGKGLLPVR 1174
EGF-R1 1005 QVARGMEFDLSSRKCIHRDLAARNILLSENNVVKIDDFGLARDIYKNPDYVRKGDTRLPLK 1064
DGFRα 801 QVARGMEF-LASKKCIHRDLAARNVLLAQGKIVKIDDFGLARDIMHDSNYVSKGSTFLPVK 860
αEF
αF
αG
EGF-R2 1071 WMAPETIFDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVKIDEEFCRRLKEGTRMRRAPDY 923
GFR1 666 WMAPEALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGVPVEELF-KLLKEGHRMDRKPSN 568
RK 1175 WMAPESLKDGVFTTSSDMWSFGVV WEITSLAEQPYQGLSNEQVL-KFVMDGGYLDLQPDN 1083
EGF-R1 1065 WMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYPGVQMDEDFCSRLREGMRMRRAPEY 916
DGFRα 861 WMAPESIFDNLYTTLSDVWSYGILLWEIFSLGGTPYPGMMVDSTFYNKIKSGYRMAFKPDH 681
αH
αI
EGF-R2 1131 TTPEMYQTMLDCWHGEPSQRPTFSELVEHLGNLLQANAQQD 1171
GFR1 725 CTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQE 765
RK 1234 CPERVTDLMRMCWQFNPNMRPTFLEIVNLLKDDLHPSFPEV 1274
EGF-R1 1125 STPEIYQIMLDCWHRDPKERPRFAELVEKLGDLLQANVQQD 1165
DGFRα 921 ATSEVYEIMVKCWNSEPEKRPSFYHLSEIVENLLPGQYKKS 961

FIG. 2a



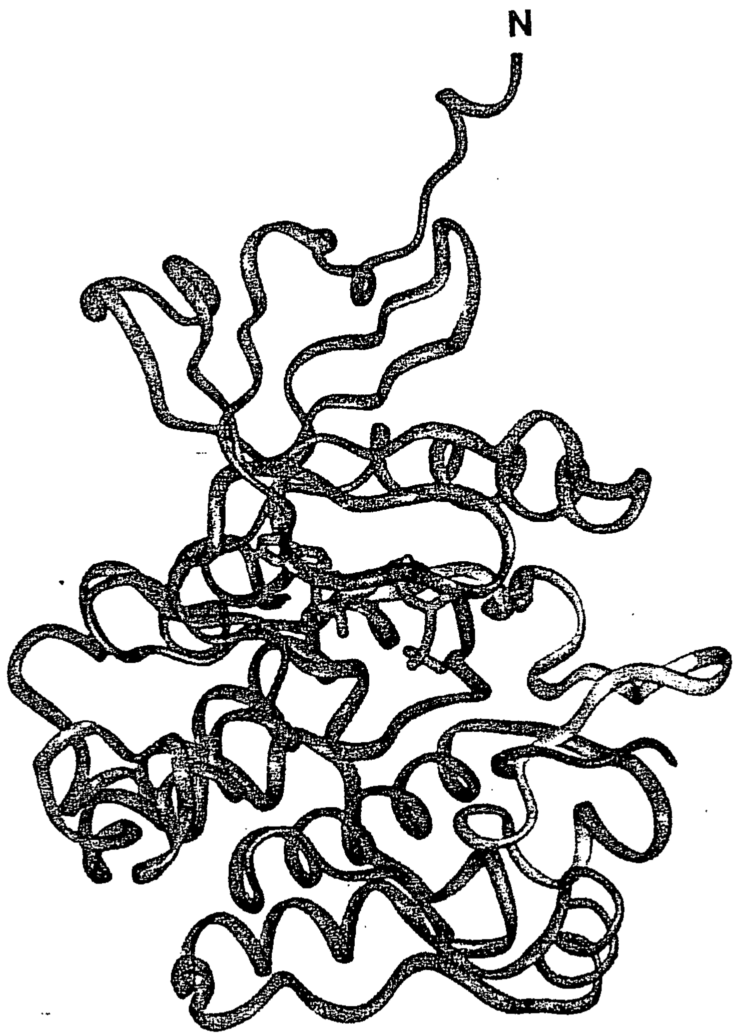
VEGFR2D50P

FIG. 2b



FGFR1

FIG. 2c



IRKP

FIG. 3a

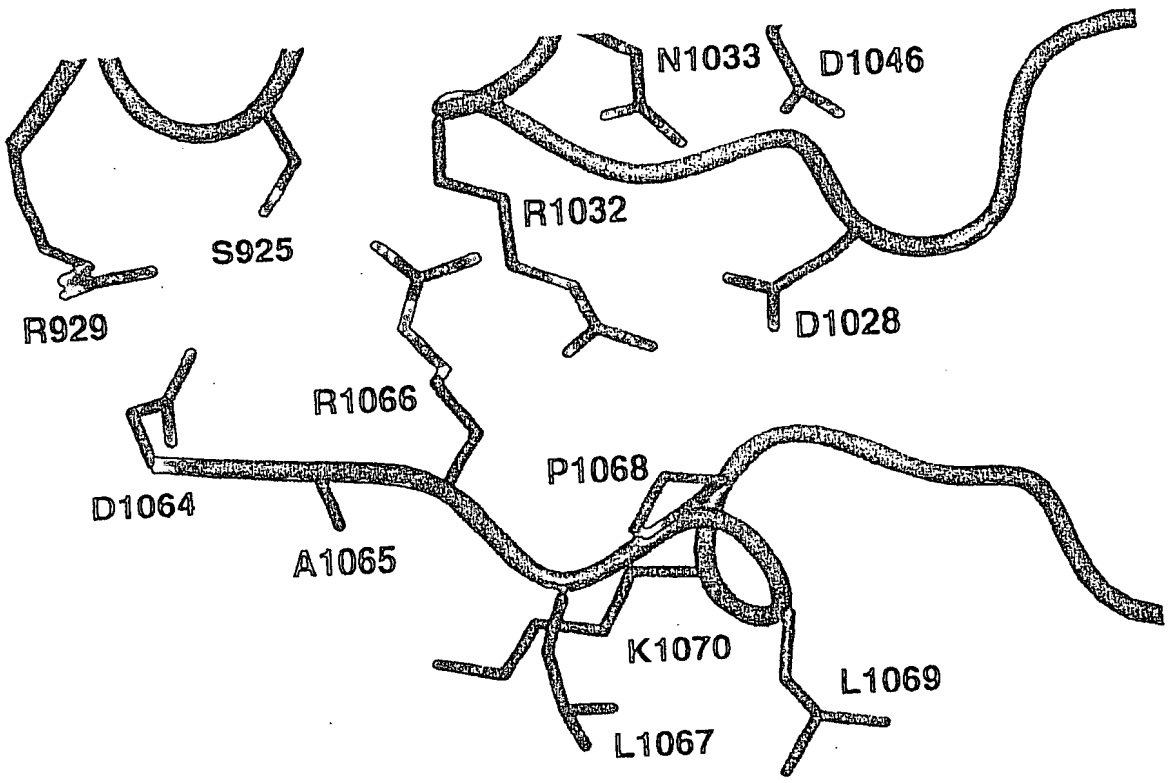

N1033
D1046
R1032
S925
R929
D1028
R1066
P1068
D1064
A1065
K1070
L1069
L1067

FIG. 3b

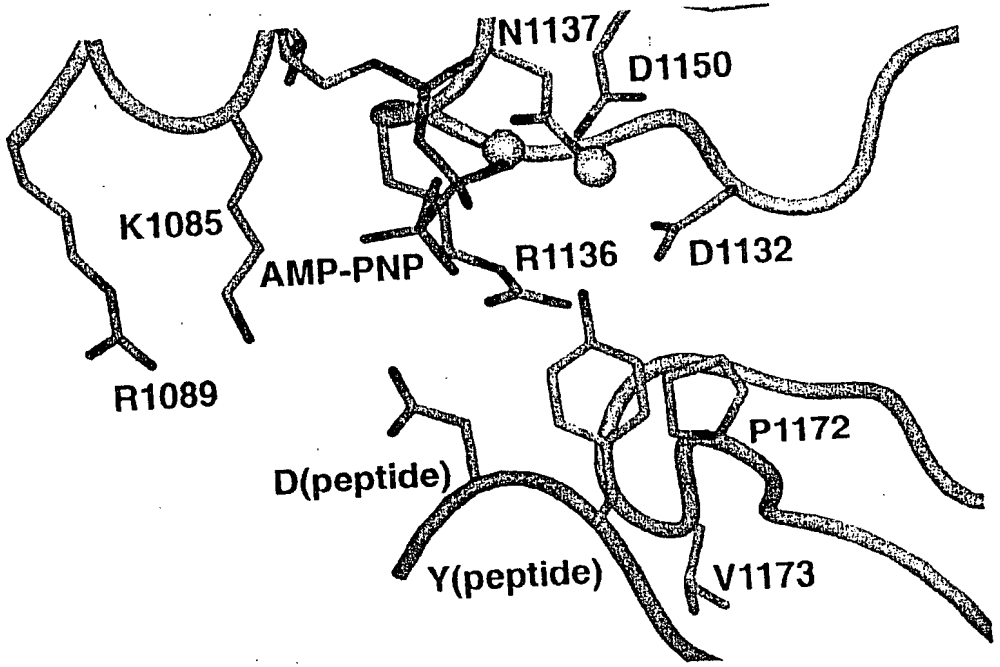


FIG. 4

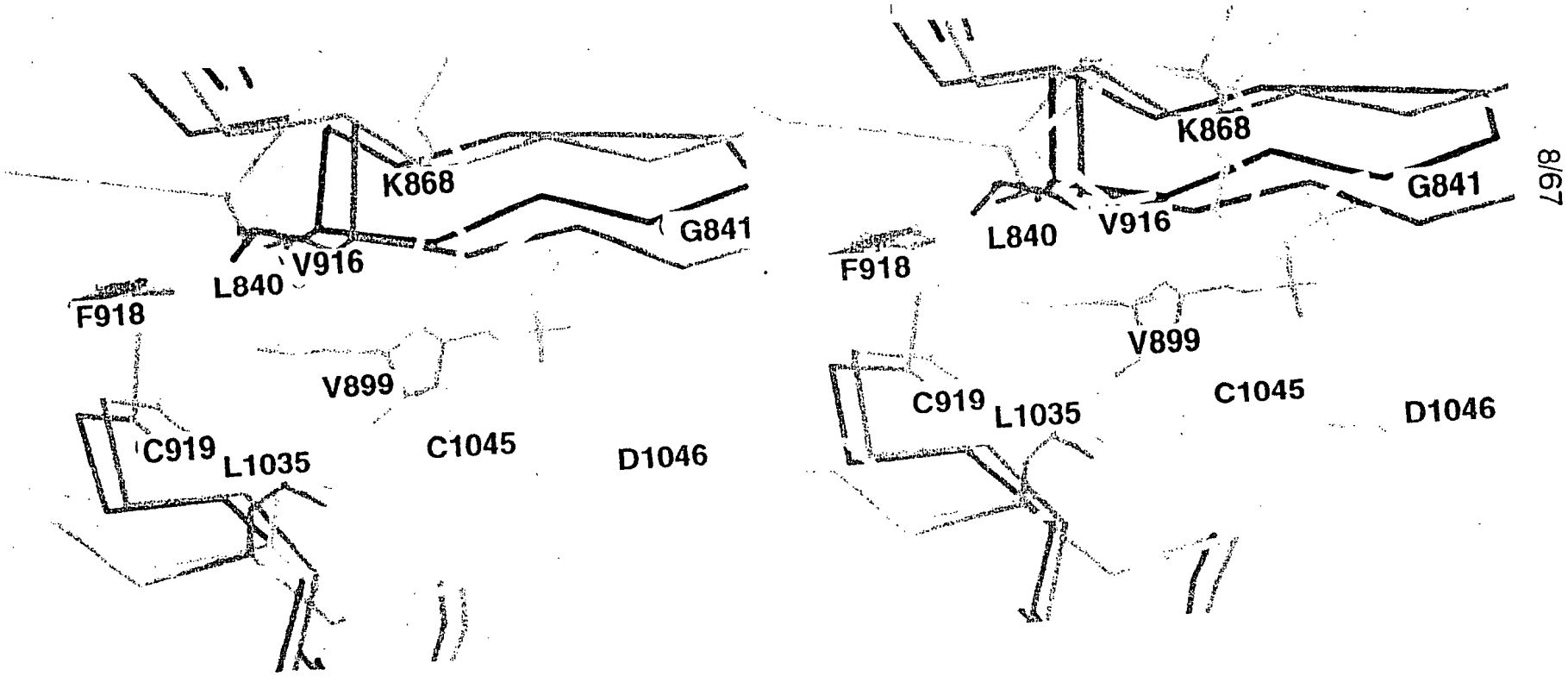

K868
G841
L840
V916
F918
V899
C919
L1035
C1045
D1046
K868
G841
L840
V916
F918
V899
C919
L1035
C1045
D1046

FIG. 5

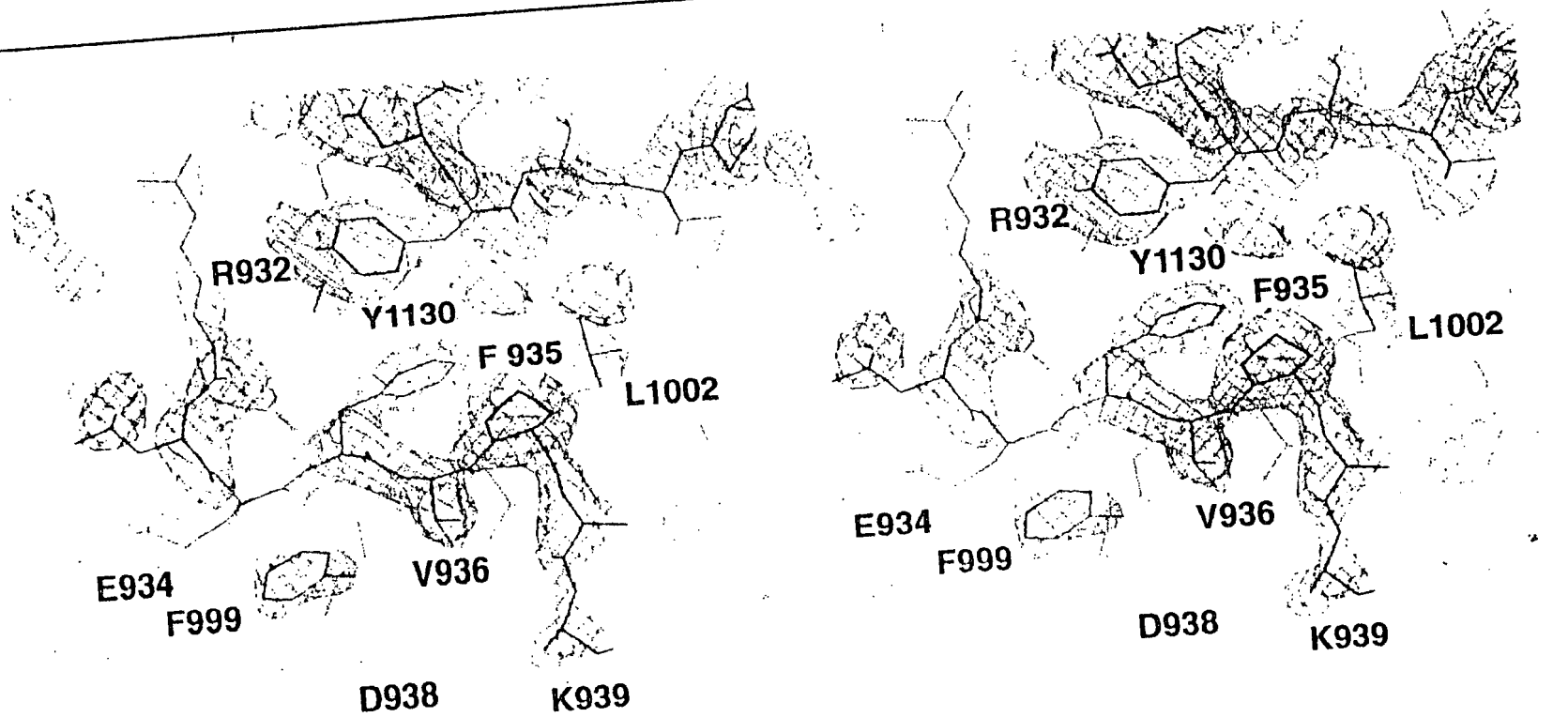

R932
Y1130
F 935
L1002
E934
F999
V936
D938
K939
R932
Y1130
F935
L1002
E934
F999
V936
D938
K939

FIG. 6

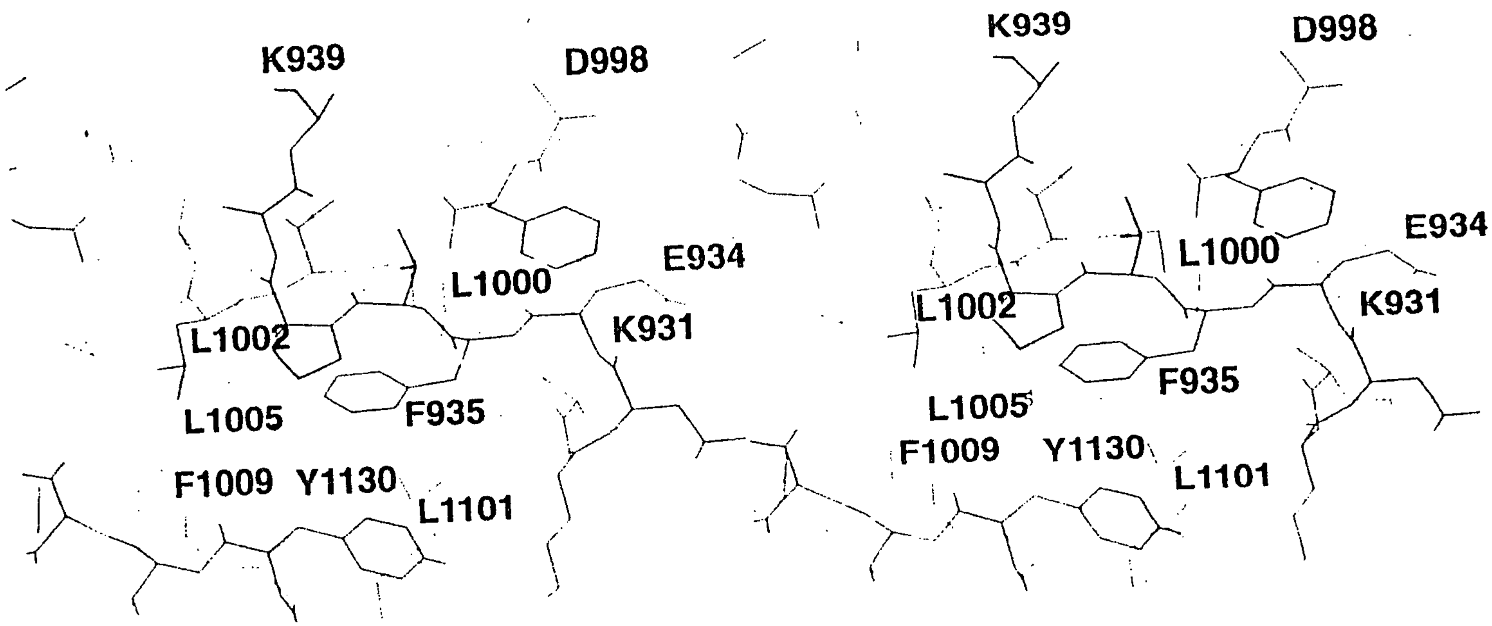

K939
D998
L1000
E934
K931
L1002
L1005
F935
F1009
Y1130
L1101
K939
D998
E934
L1000
K931
L1002
F935
L1005
F1009
Y1130
L1101

FIG. 7(1)

ATOM	1	CB	LEU	820	49.908	45.905	17.938	1.00	48.95
ATOM	2	CG	LEU	820	50.568	45.069	16.833	1.00	43.57
ATOM	3	CD1	LEU	820	50.004	45.358	15.456	1.00	43.59
ATOM	4	CD2	LEU	820	52.066	45.345	16.886	1.00	47.45
ATOM	5	C	LEU	820	49.216	48.321	17.530	1.00	48.14
ATOM	6	O	LEU	820	48.196	48.587	18.187	1.00	52.58
ATOM	9	N	LEU	820	50.481	47.725	19.581	1.00	53.68
ATOM	11	CA	LEU	820	50.302	47.387	18.117	1.00	50.63
ATOM	12	N	PRO	821	49.435	48.842	16.306	1.00	41.32
ATOM	13	CD	PRO	821	50.680	48.870	15.520	1.00	45.54
ATOM	14	CA	PRO	821	48.465	49.733	15.700	1.00	31.06
ATOM	15	CB	PRO	821	49.067	49.985	14.352	1.00	28.89
ATOM	16	CG	PRO	821	50.509	50.148	14.734	1.00	43.44
ATOM	17	C	PRO	821	47.123	49.165	15.569	1.00	26.14
ATOM	18	O	PRO	821	46.948	47.970	15.374	1.00	26.03
ATOM	19	N	TYR	822	46.154	50.024	15.776	1.00	16.25
ATOM	21	CA	TYR	822	44.799	49.643	15.582	1.00	18.88
ATOM	22	CB	TYR	822	44.061	49.519	16.916	1.00	17.42
ATOM	23	CG	TYR	822	42.584	49.316	16.728	1.00	18.46
ATOM	24	CD1	TYR	822	41.674	50.341	17.047	1.00	21.12
ATOM	25	CE1	TYR	822	40.314	50.206	16.812	1.00	13.80
ATOM	26	CD2	TYR	822	42.086	48.144	16.175	1.00	12.24
ATOM	27	CE2	TYR	822	40.714	47.997	15.951	1.00	13.44
ATOM	28	CZ	TYR	822	39.838	49.028	16.268	1.00	14.38
ATOM	29	OH	TYR	822	38.480	48.887	16.073	1.00	19.73
ATOM	31	C	TYR	822	44.253	50.760	14.705	1.00	16.93
ATOM	32	O	TYR	822	44.172	51.904	15.112	1.00	20.70
ATOM	33	N	ASP	823	44.054	50.456	13.439	1.00	15.20
ATOM	35	CA	ASP	823	43.509	51.418	12.506	1.00	13.55
ATOM	36	CB	ASP	823	43.856	50.945	11.091	1.00	11.37
ATOM	37	CG	ASP	823	43.456	51.933	10.016	1.00	16.45
ATOM	38	OD1	ASP	823	42.546	52.754	10.258	1.00	21.86
ATOM	39	OD2	ASP	823	44.022	51.854	8.904	1.00	12.33
ATOM	40	C	ASP	823	41.983	51.489	12.738	1.00	14.14
ATOM	41	O	ASP	823	41.224	50.722	12.172	1.00	19.73
ATOM	42	N	ALA	824	41.539	52.415	13.572	1.00	11.88
ATOM	44	CA	ALA	824	40.126	52.554	13.876	1.00	14.80
ATOM	45	CB	ALA	824	39.928	53.610	14.973	1.00	12.02
ATOM	46	C	ALA	824	39.259	52.893	12.658	1.00	19.09
ATOM	47	O	ALA	824	38.062	52.610	12.641	1.00	23.54

FIG. 7(2)

```
ATOM   48 N   SER  825      39.857  53.496  11.635  1.00 18.25
ATOM   50 CA  SER  825      39.118  53.867  10.450  1.00 12.65
ATOM   51 CB  SER  825      40.023  54.678   9.543  1.00 11.88
ATOM   52 OG  SER  825      39.315  55.003   8.370  1.00 20.94
ATOM   54 C   SER  825      38.669  52.594   9.746  1.00 12.30
ATOM   55 O   SER  825      37.543  52.461   9.317  1.00 14.94
ATOM   56 N   LYS  826      39.557  51.633   9.642  1.00 14.98
ATOM   58 CA  LYS  826      39.188  50.396   8.988  1.00 22.45
ATOM   59 CB  LYS  826      40.445  49.660   8.483  1.00 16.46
ATOM   60 CG  LYS  826      40.091  48.370   7.820  1.00 23.00
ATOM   61 CD  LYS  826      40.962  48.071   6.657  1.00 26.19
ATOM   62 CE  LYS  826      42.391  48.041   7.092  1.00 35.70
ATOM   63 NZ  LYS  826      43.272  48.003   5.891  1.00 40.17
ATOM   67 C   LYS  826      38.324  49.437   9.839  1.00 21.47
ATOM   68 O   LYS  826      37.363  48.850   9.336  1.00 22.56
ATOM   69 N   TRP  827      38.589  49.376  11.144  1.00 20.96
ATOM   71 CA  TRP  827      37.917  48.406  11.996  1.00 16.87
ATOM   72 CB  TRP  827      38.974  47.620  12.785  1.00 18.53
ATOM   73 CG  TRP  827      39.942  46.898  11.910  1.00 12.95
ATOM   74 CD2 TRP  827      39.643  45.810  11.029  1.00  9.73
ATOM   75 CE2 TRP  827      40.795  45.562  10.274  1.00  9.36
ATOM   76 CE3 TRP  827      38.505  45.038  10.801  1.00 11.54
ATOM   77 CD1 TRP  827      41.233  47.231  11.684  1.00 12.87
ATOM   78 NE1 TRP  827      41.753  46.440  10.689  1.00 10.49
ATOM   80 CZ2 TRP  827      40.848  44.565   9.299  1.00 12.36
ATOM   81 CZ3 TRP  827      38.556  44.053   9.826  1.00 10.55
ATOM   82 CH2 TRP  827      39.718  43.830   9.087  1.00 11.88
ATOM   83 C   TRP  827      36.830  48.795  12.953  1.00 17.75
ATOM   84 O   TRP  827      35.985  47.951  13.271  1.00 15.08
ATOM   85 N   GLU  828      36.855  50.043  13.416  1.00 16.92
ATOM   87 CA  GLU  828      35.908  50.518  14.413  1.00 19.52
ATOM   88 CB  GLU  828      36.289  51.920  14.885  1.00 17.10
ATOM   89 CG  GLU  828      35.581  52.363  16.148  1.00 12.70
ATOM   90 CD  GLU  828      36.106  51.707  17.400  1.00 21.57
ATOM   91 OE1 GLU  828      37.219  51.118  17.386  1.00 21.15
ATOM   92 OE2 GLU  828      35.402  51.819  18.426  1.00 22.43
ATOM   93 C   GLU  828      34.494  50.510  13.910  1.00 20.94
ATOM   94 O   GLU  828      34.245  51.024  12.818  1.00 26.92
ATOM   95 N   PHE  829      33.569  49.990  14.734  1.00 21.12
ATOM   97 CA  PHE  829      32.138  49.880  14.391  1.00 17.93
ATOM   98 CB  PHE  829      31.791  48.400  14.160  1.00 16.42
ATOM   99 CG  PHE  829      30.384  48.164  13.669  1.00 20.17
```

FIG. 7(3)

ATOM	100	CD1	PHE	829	30.020	48.484	12.363	1.00	21.31
ATOM	101	CD2	PHE	829	29.415	47.612	14.516	1.00	23.04
ATOM	102	CE1	PHE	829	28.712	48.254	11.921	1.00	18.76
ATOM	103	CE2	PHE	829	28.093	47.375	14.071	1.00	15.20
ATOM	104	CZ	PHE	829	27.750	47.692	12.792	1.00	17.17
ATOM	105	C	PHE	829	31.310	50.495	15.533	1.00	14.65
ATOM	106	O	PHE	829	31.574	50.211	16.686	1.00	16.15
ATOM	107	N	PRO	830	30.270	51.298	15.224	1.00	13.29
ATOM	108	CD	PRO	830	29.707	51.633	13.901	1.00	11.63
ATOM	109	CA	PRO	830	29.481	51.918	16.292	1.00	14.76
ATOM	110	CB	PRO	830	28.636	52.948	15.565	1.00	13.82
ATOM	111	CG	PRO	830	28.414	52.364	14.252	1.00	14.42
ATOM	112	C	PRO	830	28.629	51.005	17.098	1.00	19.79
ATOM	113	O	PRO	830	27.750	50.339	16.562	1.00	26.60
ATOM	114	N	ARG	831	28.830	51.060	18.410	1.00	18.39
ATOM	116	CA	ARG	831	28.085	50.246	19.335	1.00	14.56
ATOM	117	CB	ARG	831	28.469	50.580	20.743	1.00	11.53
ATOM	118	CG	ARG	831	29.808	50.050	21.092	1.00	12.65
ATOM	119	CD	ARG	831	30.117	50.265	22.554	1.00	12.46
ATOM	120	NE	ARG	831	31.261	51.148	22.584	1.00	20.55
ATOM	122	CZ	ARG	831	32.469	50.756	22.885	1.00	12.04
ATOM	123	NH1	ARG	831	32.688	49.518	23.234	1.00	23.80
ATOM	126	NH2	ARG	831	33.467	51.501	22.526	1.00	23.84
ATOM	129	C	ARG	831	26.625	50.415	19.174	1.00	18.55
ATOM	130	O	ARG	831	25.852	49.561	19.607	1.00	25.61
ATOM	131	N	ASP	832	26.221	51.517	18.552	1.00	25.32
ATOM	133	CA	ASP	832	24.794	51.734	18.354	1.00	29.47
ATOM	134	CB	ASP	832	24.393	53.230	18.408	1.00	34.15
ATOM	135	CG	ASP	832	24.817	54.036	17.174	1.00	33.50
ATOM	136	OD1	ASP	832	25.519	53.528	16.280	1.00	34.09
ATOM	137	OD2	ASP	832	24.422	55.216	17.110	1.00	41.48
ATOM	138	C	ASP	832	24.230	51.000	17.139	1.00	27.13
ATOM	139	O	ASP	832	23.023	50.905	16.991	1.00	28.08
ATOM	140	N	ARG	833	25.104	50.466	16.290	1.00	24.18
ATOM	142	CA	ARG	833	24.684	49.695	15.134	1.00	19.93
ATOM	143	CB	ARG	833	25.661	49.902	14.011	1.00	25.94
ATOM	144	CG	ARG	833	25.313	51.073	13.158	1.00	38.97
ATOM	145	CD	ARG	833	25.929	50.901	11.766	1.00	53.19
ATOM	146	NE	ARG	833	25.525	51.930	10.807	1.00	63.47
ATOM	148	CZ	ARG	833	25.419	53.229	11.087	1.00	70.42
ATOM	149	NH1	ARG	833	25.040	54.080	10.139	1.00	74.08
ATOM	152	NH2	ARG	833	25.695	53.690	12.306	1.00	72.08
ATOM	155	C	ARG	833	24.656	48.218	15.498	1.00	18.62

FIG. 7(4)

ATOM	156	O	ARG	833	24.289	47.370	14.690	1.00	18.27
ATOM	157	N	LEU	834	25.013	47.943	16.747	1.00	18.35
ATOM	159	CA	LEU	834	25.089	46.600	17.329	1.00	22.59
ATOM	160	CB	LEU	834	26.488	46.398	17.946	1.00	25.91
ATOM	161	CG	LEU	834	27.073	45.003	18.139	1.00	24.64
ATOM	162	CD1	LEU	834	27.185	44.327	16.805	1.00	21.77
ATOM	163	CD2	LEU	834	28.428	45.085	18.785	1.00	17.43
ATOM	164	C	LEU	834	23.988	46.326	18.387	1.00	24.77
ATOM	165	O	LEU	834	23.886	46.973	19.433	1.00	24.03
ATOM	166	N	LYS	835	23.173	45.335	18.087	1.00	28.94
ATOM	168	CA	LYS	835	22.072	44.942	18.940	1.00	32.84
ATOM	169	CB	LYS	835	20.794	44.913	18.081	1.00	31.34
ATOM	170	CG	LYS	835	19.529	44.697	18.839	1.00	36.63
ATOM	171	CD	LYS	835	18.359	44.407	17.940	1.00	39.31
ATOM	172	CE	LYS	835	17.074	44.414	18.783	1.00	48.99
ATOM	173	NZ	LYS	835	17.074	43.448	19.950	1.00	48.86
ATOM	177	C	LYS	835	22.431	43.532	19.420	1.00	31.79
ATOM	178	O	LYS	835	22.408	42.609	18.616	1.00	34.57
ATOM	179	N	LEU	836	22.854	43.395	20.680	1.00	33.17
ATOM	181	CA	LEU	836	23.229	42.101	21.277	1.00	34.01
ATOM	182	CB	LEU	836	23.970	42.292	22.593	1.00	33.96
ATOM	183	CG	LEU	836	25.400	42.796	22.462	1.00	42.50
ATOM	184	CD1	LEU	836	26.082	42.858	23.854	1.00	41.15
ATOM	185	CD2	LEU	836	26.153	41.860	21.501	1.00	40.93
ATOM	186	C	LEU	836	22.053	41.181	21.547	1.00	33.27
ATOM	187	O	LEU	836	21.017	41.631	22.025	1.00	31.15
ATOM	188	N	GLY	837	22.268	39.882	21.330	1.00	36.34
ATOM	190	CA	GLY	837	21.228	38.881	21.536	1.00	34.95
ATOM	191	C	GLY	837	21.603	37.761	22.497	1.00	35.64
ATOM	192	O	GLY	837	22.203	37.980	23.554	1.00	39.23
ATOM	193	N	LYS	838	21.254	36.541	22.126	1.00	35.31
ATOM	195	CA	LYS	838	21.531	35.375	22.962	1.00	37.86
ATOM	196	CB	LYS	838	20.647	34.192	22.539	1.00	41.52
ATOM	197	C	LYS	838	22.991	34.935	22.989	1.00	35.93
ATOM	198	O	LYS	838	23.650	34.851	21.946	1.00	34.37
ATOM	199	N	PRO	839	23.499	34.608	24.187	1.00	33.68
ATOM	200	CD	PRO	839	22.820	34.757	25.486	1.00	34.48
ATOM	201	CA	PRO	839	24.880	34.158	24.363	1.00	37.11
ATOM	202	CB	PRO	839	24.927	33.750	25.833	1.00	37.46
ATOM	203	CG	PRO	839	23.970	34.710	26.472	1.00	37.04
ATOM	204	C	PRO	839	25.148	32.963	23.474	1.00	39.09
ATOM	205	O	PRO	839	24.303	32.085	23.327	1.00	38.13
ATOM	206	N	LEU	840	26.261	33.013	22.767	1.00	43.08

FIG. 7(5)

ATOM	208	CA	LEU	840	26.646	31.915	21.917	1.00	47.73
ATOM	209	CB	LEU	840	27.396	32.426	20.692	1.00	41.83
ATOM	210	CG	LEU	840	26.386	32.957	19.697	1.00	39.60
ATOM	211	CD1	LEU	840	27.080	33.697	18.595	1.00	42.69
ATOM	212	CD2	LEU	840	25.582	31.795	19.156	1.00	38.40
ATOM	213	C	LEU	840	27.523	30.987	22.747	1.00	54.84
ATOM	214	O	LEU	840	27.479	29.768	22.577	1.00	59.76
ATOM	215	N	GLY	841	28.248	31.563	23.706	1.00	60.51
ATOM	217	CA	GLY	841	29.140	30.781	24.547	1.00	60.96
ATOM	218	C	GLY	841	29.660	31.544	25.750	1.00	63.95
ATOM	219	O	GLY	841	29.497	32.764	25.857	1.00	64.35
ATOM	220	N	ARG	842	30.279	30.809	26.668	1.00	65.26
ATOM	222	CA	ARG	842	30.823	31.388	27.887	1.00	65.12
ATOM	223	CB	ARG	842	30.027	30.897	29.091	1.00	61.50
ATOM	224	C	ARG	842	32.300	30.995	28.004	1.00	64.23
ATOM	225	O	ARG	842	32.957	30.720	26.986	1.00	68.80
ATOM	226	N	GLY	843	32.822	31.003	29.226	1.00	60.14
ATOM	228	CA	GLY	843	34.206	30.639	29.453	1.00	60.53
ATOM	229	C	GLY	843	34.676	31.165	30.789	1.00	62.56
ATOM	230	O	GLY	843	33.902	31.764	31.535	1.00	61.31
ATOM	231	N	ALA	844	35.925	30.888	31.140	1.00	66.30
ATOM	233	CA	ALA	844	36.450	31.390	32.403	1.00	69.69
ATOM	234	CB	ALA	844	37.655	30.574	32.851	1.00	68.47
ATOM	235	C	ALA	844	36.839	32.855	32.212	1.00	73.15
ATOM	236	O	ALA	844	36.723	33.667	33.144	1.00	75.00
ATOM	237	N	PHE	845	37.251	33.184	30.981	1.00	76.12
ATOM	239	CA	PHE	845	37.699	34.538	30.618	1.00	74.99
ATOM	240	CB	PHE	845	39.135	34.479	30.014	1.00	72.01
ATOM	241	C	PHE	845	36.766	35.353	29.700	1.00	73.81
ATOM	242	O	PHE	845	36.404	36.499	30.020	1.00	76.82
ATOM	243	N	GLY	846	36.368	34.767	28.576	1.00	68.48
ATOM	245	CA	GLY	846	35.527	35.495	27.645	1.00	61.76
ATOM	246	C	GLY	846	34.102	35.023	27.606	1.00	57.98
ATOM	247	O	GLY	846	33.658	34.305	28.491	1.00	59.43
ATOM	248	N	GLN	847	33.400	35.413	26.553	1.00	55.08
ATOM	250	CA	GLN	847	32.006	35.050	26.354	1.00	52.26
ATOM	251	CB	GLN	847	31.160	35.668	27.449	1.00	55.14
ATOM	252	CG	GLN	847	29.706	35.703	27.075	1.00	61.40
ATOM	253	CD	GLN	847	28.951	36.735	27.844	1.00	65.75
ATOM	254	OE1	GLN	847	27.772	36.543	28.150	1.00	69.74
ATOM	255	NE2	GLN	847	29.614	37.852	28.166	1.00	68.83
ATOM	258	C	GLN	847	31.508	35.573	25.001	1.00	47.29
ATOM	259	O	GLN	847	31.637	36.764	24.713	1.00	52.89

FIG. 7(6)

ATOM	260	N	VAL	848	30.912	34.707	24.195	1.00	38.17
ATOM	262	CA	VAL	848	30.418	35.122	22.898	1.00	30.28
ATOM	263	CB	VAL	848	30.792	34.137	21.833	1.00	28.01
ATOM	264	CG1	VAL	848	30.542	34.744	20.442	1.00	23.32
ATOM	265	CG2	VAL	848	32.239	33.759	22.016	1.00	22.18
ATOM	266	C	VAL	848	28.920	35.262	22.939	1.00	31.80
ATOM	267	O	VAL	848	28.221	34.525	23.625	1.00	32.87
ATOM	268	N	ILE	849	28.410	36.196	22.166	1.00	29.87
ATOM	270	CA	ILE	849	26.990	36.436	22.159	1.00	25.35
ATOM	271	CB	ILE	849	26.602	37.448	23.328	1.00	31.46
ATOM	272	CG2	ILE	849	27.766	38.373	23.732	1.00	32.09
ATOM	273	CG1	ILE	849	25.353	38.244	23.003	1.00	31.00
ATOM	274	CD1	ILE	849	24.895	39.035	24.199	1.00	37.56
ATOM	275	C	ILE	849	26.493	36.851	20.798	1.00	23.02
ATOM	276	O	ILE	849	27.167	37.540	20.070	1.00	27.56
ATOM	277	N	GLU	850	25.376	36.294	20.390	1.00	25.56
ATOM	279	CA	GLU	850	24.802	36.626	19.107	1.00	26.63
ATOM	280	CB	GLU	850	23.577	35.785	18.894	1.00	27.45
ATOM	281	CG	GLU	850	23.414	35.361	17.487	1.00	34.57
ATOM	282	CD	GLU	850	22.155	34.590	17.293	1.00	34.46
ATOM	283	OE1	GLU	850	21.602	34.655	16.184	1.00	42.38
ATOM	284	OE2	GLU	850	21.710	33.924	18.248	1.00	40.93
ATOM	285	C	GLU	850	24.422	38.111	19.028	1.00	27.83
ATOM	286	O	GLU	850	24.240	38.755	20.047	1.00	25.02
ATOM	287	N	ALA	851	24.291	38.640	17.814	1.00	29.11
ATOM	289	CA	ALA	851	23.958	40.043	17.621	1.00	27.32
ATOM	290	CB	ALA	851	25.080	40.922	18.170	1.00	18.65
ATOM	291	C	ALA	851	23.731	40.387	16.160	1.00	26.61
ATOM	292	O	ALA	851	24.328	39.785	15.283	1.00	26.99
ATOM	293	N	ASP	852	22.836	41.343	15.917	1.00	30.82
ATOM	295	CA	ASP	852	22.538	41.862	14.566	1.00	31.76
ATOM	296	CB	ASP	852	21.050	42.186	14.386	1.00	39.33
ATOM	297	CG	ASP	852	20.222	40.993	13.993	1.00	47.41
ATOM	298	OD1	ASP	852	19.687	40.330	14.906	1.00	54.12
ATOM	299	OD2	ASP	852	20.066	40.754	12.775	1.00	53.02
ATOM	300	C	ASP	852	23.265	43.204	14.506	1.00	25.97
ATOM	301	O	ASP	852	23.096	44.021	15.416	1.00	21.64
ATOM	302	N	ALA	853	24.099	43.411	13.495	1.00	20.18
ATOM	304	CA	ALA	853	24.818	44.672	13.342	1.00	23.55
ATOM	305	CB	ALA	853	26.305	44.440	13.292	1.00	23.32
ATOM	306	C	ALA	853	24.311	45.222	12.026	1.00	23.89
ATOM	307	O	ALA	853	24.079	44.439	11.108	1.00	26.15
ATOM	308	N	PHE	854	24.044	46.526	11.936	1.00	22.87

FIG. 7(7)

ATOM	310	CA	PHE	854	23.529	47.059	10.680	1.00	16.46
ATOM	311	CB	PHE	854	22.487	48.135	10.901	1.00	23.71
ATOM	312	CG	PHE	854	22.020	48.758	9.643	1.00	27.62
ATOM	313	CD1	PHE	854	22.476	50.011	9.266	1.00	28.26
ATOM	314	CD2	PHE	854	21.205	48.052	8.771	1.00	31.56
ATOM	315	CE1	PHE	854	22.136	50.549	8.025	1.00	30.16
ATOM	316	CE2	PHE	854	20.856	48.592	7.512	1.00	34.04
ATOM	317	CZ	PHE	854	21.328	49.838	7.145	1.00	28.32
ATOM	318	C	PHE	854	24.618	47.569	9.794	1.00	14.10
ATOM	319	O	PHE	854	25.493	48.299	10.209	1.00	17.34
ATOM	320	N	GLY	855	24.556	47.163	8.553	1.00	17.45
ATOM	322	CA	GLY	855	25.559	47.571	7.604	1.00	18.50
ATOM	323	C	GLY	855	26.988	47.318	8.020	1.00	22.65
ATOM	324	O	GLY	855	27.806	48.193	7.777	1.00	26.82
ATOM	325	N	ILE	856	27.332	46.150	8.580	1.00	23.51
ATOM	327	CA	ILE	856	28.740	45.886	8.983	1.00	24.11
ATOM	328	CB	ILE	856	28.868	44.692	9.980	1.00	27.72
ATOM	329	CG2	ILE	856	28.535	43.370	9.259	1.00	29.88
ATOM	330	CG1	ILE	856	30.282	44.663	10.608	1.00	23.26
ATOM	331	CD1	ILE	856	30.371	44.079	12.034	1.00	21.70
ATOM	332	C	ILE	856	29.704	45.665	7.805	1.00	24.83
ATOM	333	O	ILE	856	30.918	45.721	7.950	1.00	28.37
ATOM	334	N	ASP	857	29.145	45.460	6.626	1.00	27.69
ATOM	336	CA	ASP	857	29.926	45.248	5.420	1.00	31.23
ATOM	337	CB	ASP	857	29.566	43.891	4.838	1.00	34.80
ATOM	338	CG	ASP	857	28.074	43.658	4.811	1.00	40.03
ATOM	339	OD1	ASP	857	27.328	44.597	4.448	1.00	43.33
ATOM	340	OD2	ASP	857	27.641	42.549	5.200	1.00	46.87
ATOM	341	C	ASP	857	29.654	46.323	4.370	1.00	32.81
ATOM	342	O	ASP	857	29.721	46.040	3.183	1.00	38.59
ATOM	343	N	LYS	858	29.299	47.529	4.813	1.00	34.74
ATOM	345	CA	LYS	858	28.987	48.690	3.946	1.00	34.64
ATOM	346	CB	LYS	858	30.061	48.947	2.889	1.00	31.38
ATOM	347	CG	LYS	858	31.462	48.964	3.418	1.00	34.36
ATOM	348	CD	LYS	858	31.605	49.890	4.603	1.00	39.41
ATOM	349	CE	LYS	858	33.005	49.791	5.228	1.00	39.87
ATOM	350	NZ	LYS	858	34.059	50.089	4.218	1.00	39.89
ATOM	354	C	LYS	858	27.629	48.709	3.254	1.00	32.27
ATOM	355	O	LYS	858	27.249	49.737	2.724	1.00	35.02
ATOM	356	N	THR	859	26.891	47.607	3.258	1.00	32.20
ATOM	358	CA	THR	859	25.597	47.610	2.600	1.00	30.11
ATOM	359	CB	THR	859	25.355	46.332	1.785	1.00	30.38
ATOM	360	OG1	THR	859	25.365	45.187	2.641	1.00	32.29

FIG. 7(8)

ATOM	362	CG2	THR	859	26.437	46.179	0.757	1.00	32.22
ATOM	363	C	THR	859	24.450	47.839	3.546	1.00	28.71
ATOM	364	O	THR	859	24.577	47.647	4.750	1.00	30.55
ATOM	365	N	ALA	860	23.303	48.201	2.989	1.00	30.07
ATOM	367	CA	ALA	860	22.123	48.474	3.784	1.00	28.01
ATOM	368	CB	ALA	860	21.141	49.253	2.928	1.00	23.78
ATOM	369	C	ALA	860	21.461	47.222	4.394	1.00	28.00
ATOM	370	O	ALA	860	20.251	47.100	4.373	1.00	31.77
ATOM	371	N	THR	861	22.228	46.325	5.008	1.00	29.99
ATOM	373	CA	THR	861	21.663	45.078	5.577	1.00	27.77
ATOM	374	CB	THR	861	22.186	43.857	4.808	1.00	20.97
ATOM	375	OG1	THR	861	23.614	43.926	4.687	1.00	27.23
ATOM	377	CG2	THR	861	21.608	43.794	3.449	1.00	29.39
ATOM	378	C	THR	861	21.986	44.790	7.055	1.00	31.89
ATOM	379	O	THR	861	23.095	45.077	7.532	1.00	34.73
ATOM	380	N	CYS	862	21.037	44.183	7.770	1.00	34.09
ATOM	382	CA	CYS	862	21.250	43.805	9.178	1.00	31.63
ATOM	383	CB	CYS	862	19.922	43.756	9.943	1.00	27.50
ATOM	384	SG	CYS	862	19.863	44.908	11.327	1.00	41.79
ATOM	385	C	CYS	862	21.876	42.424	9.146	1.00	25.51
ATOM	386	O	CYS	862	21.241	41.492	8.700	1.00	30.38
ATOM	387	N	ARG	863	23.136	42.307	9.541	1.00	27.68
ATOM	389	CA	ARG	863	23.839	41.025	9.532	1.00	28.29
ATOM	390	CB	ARG	863	25.211	41.210	8.882	1.00	36.18
ATOM	391	CG	ARG	863	25.775	39.945	8.275	1.00	48.71
ATOM	392	CD	ARG	863	27.282	40.034	7.943	1.00	58.46
ATOM	393	NE	ARG	863	27.824	38.721	7.550	1.00	65.04
ATOM	395	CZ	ARG	863	29.112	38.452	7.330	1.00	65.66
ATOM	396	NH1	ARG	863	29.482	37.219	6.985	1.00	67.60
ATOM	399	NH2	ARG	863	30.030	39.409	7.421	1.00	66.49
ATOM	402	C	ARG	863	24.006	40.409	10.943	1.00	28.34
ATOM	403	O	ARG	863	24.337	41.125	11.904	1.00	24.64
ATOM	404	N	THR	864	23.735	39.100	11.078	1.00	23.23
ATOM	406	CA	THR	864	23.900	38.426	12.364	1.00	18.91
ATOM	407	CB	THR	864	23.062	37.099	12.489	1.00	19.40
ATOM	408	OG1	THR	864	21.672	37.435	12.547	1.00	24.20
ATOM	410	CG2	THR	864	23.371	36.351	13.793	1.00	8.83
ATOM	411	C	THR	864	25.385	38.148	12.462	1.00	20.93
ATOM	412	O	THR	864	26:001	37.736	11.468	1.00	20.14
ATOM	413	N	VAL	865	25.962	38.442	13.634	1.00	16.03
ATOM	415	CA	VAL	865	27.381	38.254	13.897	1.00	16.69
ATOM	416	CB	VAL	865	28.175	39.620	13.906	1.00	17.70
ATOM	417	CG1	VAL	865	28.107	40.299	12.539	1.00	21.22

FIG. 7(9)

ATOM	418	CG2	VAL	865	27.625	40.554	14.979	1.00	20.92
ATOM	419	C	VAL	865	27.533	37.660	15.276	1.00	15.90
ATOM	420	O	VAL	865	26.552	37.554	15.995	1.00	16.43
ATOM	421	N	ALA	866	28.775	37.295	15.612	1.00	16.37
ATOM	423	CA	ALA	866	29.210	36.753	16.910	1.00	18.08
ATOM	424	CB	ALA	866	30.022	35.490	16.691	1.00	7.41
ATOM	425	C	ALA	866	30.117	37.834	17.588	1.00	23.87
ATOM	426	O	ALA	866	31.121	38.261	16.998	1.00	24.17
ATOM	427	N	VAL	867	29.790	38.235	18.827	1.00	26.69
ATOM	429	CA	VAL	867	30.534	39.268	19.554	1.00	20.37
ATOM	430	CB	VAL	867	29.592	40.365	20.088	1.00	17.71
ATOM	431	CG1	VAL	867	30.361	41.586	20.519	1.00	9.32
ATOM	432	CG2	VAL	867	28.635	40.753	19.027	1.00	14.57
ATOM	433	C	VAL	867	31.320	38.748	20.728	1.00	21.67
ATOM	434	O	VAL	867	30.784	38.085	21.606	1.00	23.57
ATOM	435	N	LYS	868	32.616	38.982	20.694	1.00	21.65
ATOM	437	CA	LYS	868	33.471	38.593	21.782	1.00	27.02
ATOM	438	CB	LYS	868	34.860	38.169	21.289	1.00	29.71
ATOM	439	CG	LYS	868	34.842	36.963	20.405	1.00	37.08
ATOM	440	CD	LYS	868	36.151	36.810	19.666	1.00	44.81
ATOM	441	CE	LYS	868	36.183	35.512	18.868	1.00	45.52
ATOM	442	NZ	LYS	868	37.548	35.298	18.274	1.00	47.28
ATOM	446	C	LYS	868	33.585	39.842	22.647	1.00	26.11
ATOM	447	O	LYS	868	33.962	40.914	22.188	1.00	24.72
ATOM	448	N	MET	869	33.184	39.721	23.888	1.00	29.77
ATOM	450	CA	MET	869	33.299	40.821	24.803	1.00	32.95
ATOM	451	CB	MET	869	31.958	41.491	24.996	1.00	30.57
ATOM	452	CG	MET	869	30.900	40.542	25.463	1.00	32.29
ATOM	453	SD	MET	869	29.348	41.157	24.961	1.00	42.68
ATOM	454	CE	MET	869	29.251	42.663	25.919	1.00	35.32
ATOM	455	C	MET	869	33.778	40.205	26.095	1.00	40.29
ATOM	456	O	MET	869	33.921	38.967	26.216	1.00	35.26
ATOM	457	N	LEU	870	34.079	41.066	27.051	1.00	46.88
ATOM	459	CA	LEU	870	34.521	40.576	28.337	1.00	51.36
ATOM	460	CB	LEU	870	35.544	41.549	28.937	1.00	48.55
ATOM	461	CG	LEU	870	36.862	41.677	28.180	1.00	44.32
ATOM	462	CD1	LEU	870	37.734	42.739	28.855	1.00	36.89
ATOM	463	CD2	LEU	870	37.535	40.306	28.149	1.00	41.04
ATOM	464	C	LEU	870	33.344	40.306	29.311	1.00	53.63
ATOM	465	O	LEU	870	32.163	40.615	29.037	1.00	52.68
ATOM	466	N	LYS	871	33.675	39.644	30.412	1.00	56.89
ATOM	468	CA	LYS	871	32.695	39.346	31.426	1.00	58.53
ATOM	469	CB	LYS	871	33.083	38.077	32.169	1.00	59.89

FIG. 7(10)

ATOM	470	CG	LYS	871	31.903	37.220	32.546	1.00	63.81
ATOM	471	CD	LYS	871	31.912	35.965	31.719	1.00	65.43
ATOM	472	CE	LYS	871	33.268	35.318	31.853	1.00	70.59
ATOM	473	NZ	LYS	871	33.318	34.051	31.135	1.00	76.57
ATOM	477	C	LYS	871	32.649	40.518	32.404	1.00	59.44
ATOM	478	O	LYS	871	33.582	41.342	32.464	1.00	56.75
ATOM	479	N	GLU	872	31.566	40.571	33.177	1.00	61.50
ATOM	481	CA	GLU	872	31.357	41.618	34.177	1.00	64.12
ATOM	482	CB	GLU	872	29.928	41.539	34.739	1.00	66.85
ATOM	483	CG	GLU	872	28.846	41.903	33.729	1.00	71.27
ATOM	484	CD	GLU	872	29.060	41.218	32.387	1.00	74.41
ATOM	485	OE1	GLU	872	28.900	39.980	32.326	1.00	76.27
ATOM	486	OE2	GLU	872	29.443	41.903	31.411	1.00	74.20
ATOM	487	C	GLU	872	32.387	41.424	35.288	1.00	60.87
ATOM	488	O	GLU	872	32.331	40.441	36.026	1.00	61.34
ATOM	489	N	GLY	873	33.368	42.319	35.335	1.00	57.40
ATOM	491	CA	GLY	873	34.408	42.223	36.337	1.00	53.93
ATOM	492	C	GLY	873	35.703	41.641	35.803	1.00	52.30
ATOM	493	O	GLY	873	36.518	41.103	36.563	1.00	51.95
ATOM	494	N	ALA	874	35.881	41.721	34.491	1.00	51.13
ATOM	496	CA	ALA	874	37.090	41.217	33.862	1.00	51.21
ATOM	497	CB	ALA	874	36.875	41.049	32.335	1.00	48.57
ATOM	498	C	ALA	874	38.270	42.172	34.199	1.00	50.40
ATOM	499	O	ALA	874	38.101	43.388	34.369	1.00	48.57
ATOM	500	N	THR	875	39.465	41.609	34.245	1.00	48.33
ATOM	502	CA	THR	875	40.657	42.334	34.617	1.00	51.59
ATOM	503	CB	THR	875	41.572	41.428	35.447	1.00	54.42
ATOM	504	OG1	THR	875	42.677	42.184	35.937	1.00	60.69
ATOM	506	CG2	THR	875	42.107	40.280	34.593	1.00	60.52
ATOM	507	C	THR	875	41.455	42.830	33.448	1.00	51.15
ATOM	508	O	THR	875	41.395	42.263	32.372	1.00	52.26
ATOM	509	N	HIS	876	42.343	43.770	33.733	1.00	53.93
ATOM	511	CA	HIS	876	43.215	44.392	32.737	1.00	55.68
ATOM	512	CB	HIS	876	44.170	45.383	33.419	1.00	54.06
ATOM	513	CG	HIS	876	45.609	44.980	33.361	1.00	56.52
ATOM	514	CD2	HIS	876	46.595	45.314	32.487	1.00	56.83
ATOM	515	ND1	HIS	876	46.191	44.149	34.297	1.00	60.22
ATOM	517	CE1	HIS	876	47.472	43.992	34.009	1.00	62.12
ATOM	518	NE2	HIS	876	47.739	44.689	32.916	1.00	59.66
ATOM	520	C	HIS	876	44.003	43.385	31.898	1.00	54.72
ATOM	521	O	HIS	876	44.510	43.712	30.810	1.00	54.08
ATOM	522	N	SER	877	44.167	42.189	32.434	1.00	52.07
ATOM	524	CA	SER	877	44.872	41.160	31.704	1.00	53.73

FIG. 7(11)

ATOM	525	CB	SER	877	45.622	40.256	32.669	1.00	57.58
ATOM	526	OG	SER	877	46.559	41.054	33.379	1.00	63.62
ATOM	528	C	SER	877	43.880	40.410	30.810	1.00	51.29
ATOM	529	O	SER	877	44.227	39.962	29.715	1.00	50.11
ATOM	530	N	GLU	878	42.629	40.320	31.246	1.00	47.72
ATOM	532	CA	GLU	878	41.620	39.696	30.410	1.00	45.39
ATOM	533	CB	GLU	878	40.335	39.483	31.201	1.00	48.19
ATOM	534	CG	GLU	878	40.383	38.191	32.013	1.00	60.86
ATOM	535	CD	GLU	878	39.304	38.086	33.092	1.00	68.27
ATOM	536	OE1	GLU	878	38.448	37.162	33.027	1.00	70.85
ATOM	537	OE2	GLU	878	39.336	38.911	34.029	1.00	67.92
ATOM	538	C	GLU	878	41.448	40.702	29.277	1.00	40.09
ATOM	539	O	GLU	878	41.536	40.365	28.104	1.00	38.92
ATOM	540	N	HIS	879	41.393	41.966	29.659	1.00	34.60
ATOM	542	CA	HIS	879	41.252	43.072	28.732	1.00	36.68
ATOM	543	CB	HIS	879	41.070	44.392	29.505	1.00	44.03
ATOM	544	CG	HIS	879	40.637	45.547	28.652	1.00	43.54
ATOM	545	CD2	HIS	879	39.403	46.025	28.364	1.00	40.08
ATOM	546	ND1	HIS	879	41.529	46.307	27.917	1.00	39.08
ATOM	548	CE1	HIS	879	40.860	47.192	27.202	1.00	40.82
ATOM	549	NE2	HIS	879	39.572	47.045	27.452	1.00	49.01
ATOM	551	C	HIS	879	42.455	43.172	27.797	1.00	34.17
ATOM	552	O	HIS	879	42.293	43.494	26.626	1.00	33.65
ATOM	553	N	ARG	880	43.664	42.993	28.319	1.00	33.25
ATOM	555	CA	ARG	880	44.838	43.033	27.470	1.00	29.84
ATOM	556	CB	ARG	880	46.124	42.932	28.299	1.00	36.53
ATOM	557	CG	ARG	880	46.615	41.470	28.452	1.00	50.57
ATOM	558	CD	ARG	880	48.121	41.276	28.649	1.00	56.95
ATOM	559	NE	ARG	880	48.555	41.748	29.960	1.00	63.99
ATOM	561	CZ	ARG	880	49.030	42.967	30.175	1.00	66.67
ATOM	562	NH1	ARG	880	49.391	43.327	31.397	1.00	66.45
ATOM	565	NH2	ARG	880	49.170	43.813	29.157	1.00	66.52
ATOM	568	C	ARG	880	44.741	41.799	26.533	1.00	29.72
ATOM	569	O	ARG	880	45.246	41.808	25.401	1.00	21.81
ATOM	570	N	ALA	881	44.070	40.747	27.006	1.00	28.49
ATOM	572	CA	ALA	881	43.942	39.514	26.227	1.00	31.72
ATOM	573	CB	ALA	881	43.587	38.342	27.142	1.00	31.57
ATOM	574	C	ALA	881	42.978	39.592	25.044	1.00	29.98
ATOM	575	O	ALA	881	43.319	39.154	23.944	1.00	31.95
ATOM	576	N	LEU	882	41.766	40.099	25.273	1.00	27.12
ATOM	578	CA	LEU	882	40.804	40.248	24.193	1.00	27.43
ATOM	579	CB	LEU	882	39.493	40.784	24.728	1.00	23.93
ATOM	580	CG	LEU	882	38.402	40.925	23.662	1.00	25.91

FIG. 7(12)

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ATOM  581 CD1 LEU  882      38.435  39.722  22.743  1.00 21.91
ATOM  582 CD2 LEU  882      37.013  41.102  24.325  1.00 23.61
ATOM  583 C   LEU  882      41.368  41.230  23.151  1.00 30.62
ATOM  584 O   LEU  882      41.312  40.982  21.945  1.00 27.61
ATOM  585 N   MET  883      41.940  42.325  23.643  1.00 29.74
ATOM  587 CA  MET  883      42.548  43.364  22.808  1.00 30.75
ATOM  588 CB  MET  883      43.001  44.516  23.738  1.00 27.47
ATOM  589 CG  MET  883      43.432  45.828  23.084  1.00 33.64
ATOM  590 SD  MET  883      42.313  46.592  21.882  1.00 33.18
ATOM  591 CE  MET  883      41.031  47.285  22.943  1.00 33.54
ATOM  592 C   MET  883      43.711  42.756  21.965  1.00 29.92
ATOM  593 O   MET  883      43.862  43.022  20.766  1.00 28.38
ATOM  594 N   SER  884      44.501  41.893  22.588  1.00 29.75
ATOM  596 CA  SER  884      45.597  41.231  21.912  1.00 28.29
ATOM  597 CB  SER  884      46.343  40.391  22.923  1.00 32.03
ATOM  598 OG  SER  884      47.220  39.502  22.270  1.00 44.59
ATOM  600 C   SER  884      45.091  40.329  20.778  1.00 29.39
ATOM  601 O   SER  884      45.595  40.359  19.654  1.00 28.92
ATOM  602 N   GLU  885      44.084  39.526  21.071  1.00 25.33
ATOM  604 CA  GLU  885      43.559  38.661  20.058  1.00 27.47
ATOM  605 CB  GLU  885      42.563  37.692  20.661  1.00 31.61
ATOM  606 CG  GLU  885      41.142  38.108  20.642  1.00 46.01
ATOM  607 CD  GLU  885      40.215  36.903  20.799  1.00 55.19
ATOM  608 OE1 GLU  885      40.018  36.469  21.964  1.00 58.80
ATOM  609 OE2 GLU  885      39.715  36.379  19.762  1.00 54.01
ATOM  610 C   GLU  885      42.945  39.470  18.924  1.00 28.59
ATOM  611 O   GLU  885      42.833  38.983  17.805  1.00 26.67
ATOM  612 N   LEU  886      42.560  40.712  19.211  1.00 27.06
ATOM  614 CA  LEU  886      41.994  41.594  18.205  1.00 23.75
ATOM  615 CB  LEU  886      41.483  42.887  18.847  1.00 22.79
ATOM  616 CG  LEU  886      41.122  44.033  17.905  1.00 17.60
ATOM  617 CD1 LEU  886      39.981  43.608  16.999  1.00 11.98
ATOM  618 CD2 LEU  886      40.747  45.285  18.702  1.00 18.31
ATOM  619 C   LEU  886      43.049  41.936  17.147  1.00 24.77
ATOM  620 O   LEU  886      42.767  41.880  15.939  1.00 22.15
ATOM  621 N   LYS  887      44.265  42.246  17.602  1.00 25.08
ATOM  623 CA  LYS  887      45.384  42.613  16.722  1.00 24.94
ATOM  624 CB  LYS  887      46.517  43.227  17.544  1.00 29.70
ATOM  625 CG  LYS  887      46.105  44.304  18.560  1.00 30.67
ATOM  626 CD  LYS  887      45.556  45.551  17.895  1.00 28.99
ATOM  627 CE  LYS  887      45.170  46.645  18.923  1.00 26.07
ATOM  628 NZ  LYS  887      46.354  47.216  19.621  1.00 17.59
ATOM  632 C   LYS  887      45.921  41.407  15.925  1.00 25.59
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FIG. 7(13)

ATOM	633	O	LYS	887	46.388	41.547	14.793	1.00	30.23
ATOM	634	N	ILE	888	45.917	40.235	16.542	1.00	20.48
ATOM	636	CA	ILE	888	46.347	39.028	15.859	1.00	21.46
ATOM	637	CB	ILE	888	46.306	37.795	16.816	1.00	22.73
ATOM	638	CG2	ILE	888	46.604	36.556	16.047	1.00	24.05
ATOM	639	CG1	ILE	888	47.355	37.929	17.937	1.00	23.32
ATOM	640	CD1	ILE	888	47.092	37.058	19.190	1.00	18.29
ATOM	641	C	ILE	888	45.392	38.822	14.663	1.00	19.51
ATOM	642	O	ILE	888	45.834	38.710	13.529	1.00	19.15
ATOM	643	N	LEU	889	44.088	38.828	14.922	1.00	15.54
ATOM	645	CA	LEU	889	43.078	38.677	13.872	1.00	20.73
ATOM	646	CB	LEU	889	41.658	38.818	14.446	1.00	19.41
ATOM	647	CG	LEU	889	41.204	37.652	15.372	1.00	22.61
ATOM	648	CD1	LEU	889	39.735	37.752	15.697	1.00	13.49
ATOM	649	CD2	LEU	889	41.500	36.263	14.764	1.00	18.87
ATOM	650	C	LEU	889	43.308	39.678	12.762	1.00	24.12
ATOM	651	O	LEU	889	43.342	39.344	11.584	1.00	28.65
ATOM	652	N	ILE	890	43.461	40.931	13.138	1.00	29.62
ATOM	654	CA	ILE	890	43.753	41.953	12.158	1.00	26.41
ATOM	655	CB	ILE	890	43.966	43.310	12.865	1.00	24.45
ATOM	656	CG2	ILE	890	44.555	44.333	11.888	1.00	30.36
ATOM	657	CG1	ILE	890	42.645	43.825	13.438	1.00	19.80
ATOM	658	CD1	ILE	890	42.812	45.061	14.241	1.00	14.93
ATOM	659	C	ILE	890	45.053	41.519	11.415	1.00	28.37
ATOM	660	O	ILE	890	45.126	41.553	10.191	1.00	24.83
ATOM	661	N	HIS	891	46.066	41.099	12.164	1.00	27.37
ATOM	663	CA	HIS	891	47.309	40.659	11.567	1.00	27.76
ATOM	664	CB	HIS	891	48.277	40.175	12.654	1.00	36.80
ATOM	665	CG	HIS	891	49.509	39.507	12.100	1.00	47.58
ATOM	666	CD2	HIS	891	50.811	39.869	12.147	1.00	46.38
ATOM	667	ND1	HIS	891	49.450	38.394	11.276	1.00	52.71
ATOM	669	CE1	HIS	891	50.660	38.114	10.825	1.00	50.46
ATOM	670	NE2	HIS	891	51.505	38.993	11.340	1.00	54.62
ATOM	672	C	HIS	891	47.098	39.536	10.537	1.00	27.01
ATOM	673	O	HIS	891	47.522	39.647	9.402	1.00	32.82
ATOM	674	N	ILE	892	46.580	38.403	10.995	1.00	24.99
ATOM	676	CA	ILE	892	46.300	37.216	10.181	1.00	23.19
ATOM	677	CB	ILE	892	45.233	36.282	10.907	1.00	24.73
ATOM	678	CG2	ILE	892	44.643	35.295	9.941	1.00	20.03
ATOM	679	CG1	ILE	892	45.828	35.522	12.104	1.00	26.32
ATOM	680	CD1	ILE	892	47.015	36.222	12.787	1.00	36.72
ATOM	681	C	ILE	892	45.700	37.625	8.848	1.00	22.57
ATOM	682	O	ILE	892	46.115	37.155	7.775	1.00	25.20

FIG. 7(14)

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ATOM   683  N   GLY  893      44.699  38.492   8.916  1.00 23.88
ATOM   685  CA  GLY  893      44.034  38.910   7.702  1.00 25.37
ATOM   686  C   GLY  893      42.794  38.080   7.403  1.00 25.54
ATOM   687  O   GLY  893      42.303  37.326   8.224  1.00 32.60
ATOM   688  N   HIS  894      42.327  38.149   6.176  1.00 26.97
ATOM   690  CA  HIS  894      41.120  37.457   5.797  1.00 26.35
ATOM   691  CB  HIS  894      40.233  38.464   5.042  1.00 31.72
ATOM   692  CG  HIS  894      39.114  37.833   4.274  1.00 35.68
ATOM   693  CD2 HIS  894      37.818  37.609   4.608  1.00 34.18
ATOM   694  ND1 HIS  894      39.271  37.346   2.989  1.00 38.36
ATOM   696  CE1 HIS  894      38.121  36.854   2.568  1.00 36.24
ATOM   697  NE2 HIS  894      37.224  37.004   3.527  1.00 35.86
ATOM   699  C   HIS  894      41.253  36.182   4.958  1.00 24.38
ATOM   700  O   HIS  894      42.045  36.108   4.007  1.00 24.24
ATOM   701  N   HIS  895      40.426  35.202   5.280  1.00 17.00
ATOM   703  CA  HIS  895      40.379  33.994   4.494  1.00 18.62
ATOM   704  CB  HIS  895      41.363  32.929   4.931  1.00 15.85
ATOM   705  CG  HIS  895      41.446  31.814   3.943  1.00 21.47
ATOM   706  CD2 HIS  895      42.076  31.737   2.745  1.00 17.93
ATOM   707  ND1 HIS  895      40.675  30.676   4.042  1.00 21.96
ATOM   709  CE1 HIS  895      40.819  29.956   2.938  1.00 21.22
ATOM   710  NE2 HIS  895      41.663  30.578   2.137  1.00 10.16
ATOM   712  C   HIS  895      38.979  33.467   4.626  1.00 15.66
ATOM   713  O   HIS  895      38.396  33.656   5.663  1.00 18.76
ATOM   714  N   LEU  896      38.419  32.865   3.567  1.00 21.74
ATOM   716  CA  LEU  896      37.042  32.306   3.584  1.00 18.37
ATOM   717  CB  LEU  896      36.652  31.762   2.210  1.00 17.64
ATOM   718  CG  LEU  896      35.297  31.068   2.218  1.00 25.15
ATOM   719  CD1 LEU  896      34.218  32.077   2.454  1.00 24.41
ATOM   720  CD2 LEU  896      35.042  30.342   0.934  1.00 25.59
ATOM   721  C   LEU  896      36.867  31.172   4.569  1.00 17.58
ATOM   722  O   LEU  896      35.783  30.937   5.068  1.00 23.11
ATOM   723  N   ASN  897      37.952  30.475   4.849  1.00 15.99
ATOM   725  CA  ASN  897      37.878  29.340   5.725  1.00 18.36
ATOM   726  CB  ASN  897      38.589  28.134   5.078  1.00 20.86
ATOM   727  CG  ASN  897      37.928  27.689   3.747  1.00 16.88
ATOM   728  OD1 ASN  897      38.567  27.692   2.694  1.00 14.51
ATOM   729  ND2 ASN  897      36.639  27.346   3.799  1.00 12.11
ATOM   732  C   ASN  897      38.293  29.541   7.188  1.00 25.65
ATOM   733  O   ASN  897      38.648  28.556   7.858  1.00 22.22
ATOM   734  N   VAL  898      38.357  30.800   7.660  1.00 23.53
ATOM   736  CA  VAL  898      38.631  31.079   9.081  1.00 15.38
ATOM   737  CB  VAL  898      40.036  31.719   9.457  1.00 11.47
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FIG. 7(15)

ATOM	738	CG1	VAL	898	41.146	30.813	9.017	1.00	14.76
ATOM	739	CG2	VAL	898	40.236	33.119	8.883	1.00	8.71
ATOM	740	C	VAL	898	37.475	31.959	9.477	1.00	15.57
ATOM	741	O	VAL	898	36.698	32.382	8.620	1.00	17.87
ATOM	742	N	VAL	899	37.226	32.049	10.773	1.00	18.55
ATOM	744	CA	VAL	899	36.155	32.882	11.264	1.00	20.68
ATOM	745	CB	VAL	899	35.757	32.487	12.720	1.00	19.98
ATOM	746	CG1	VAL	899	34.618	33.384	13.202	1.00	18.29
ATOM	747	CG2	VAL	899	35.346	31.016	12.788	1.00	12.67
ATOM	748	C	VAL	899	36.807	34.272	11.244	1.00	21.95
ATOM	749	O	VAL	899	37.725	34.517	12.003	1.00	21.42
ATOM	750	N	ASN	900	36.352	35.164	10.363	1.00	23.43
ATOM	752	CA	ASN	900	36.930	36.526	10.226	1.00	23.52
ATOM	753	CB	ASN	900	36.737	37.061	8.803	1.00	19.45
ATOM	754	CG	ASN	900	37.350	36.177	7.782	1.00	19.58
ATOM	755	OD1	ASN	900	38.578	36.087	7.667	1.00	17.65
ATOM	756	ND2	ASN	900	36.511	35.528	7.004	1.00	20.34
ATOM	759	C	ASN	900	36.484	37.641	11.152	1.00	17.00
ATOM	760	O	ASN	900	35.343	37.704	11.598	1.00	16.94
ATOM	761	N	LEU	901	37.413	38.544	11.384	1.00	17.25
ATOM	763	CA	LEU	901	37.167	39.733	12.160	1.00	17.98
ATOM	764	CB	LEU	901	38.494	40.447	12.426	1.00	16.80
ATOM	765	CG	LEU	901	38.444	41.819	13.101	1.00	14.17
ATOM	766	CD1	LEU	901	38.018	41.673	14.560	1.00	11.71
ATOM	767	CD2	LEU	901	39.782	42.435	13.008	1.00	2.76
ATOM	768	C	LEU	901	36.354	40.578	11.174	1.00	20.28
ATOM	769	O	LEU	901	36.669	40.612	9.965	1.00	18.06
ATOM	770	N	LEU	902	35.280	41.180	11.686	1.00	19.74
ATOM	772	CA	LEU	902	34.398	42.031	10.917	1.00	15.84
ATOM	773	CB	LEU	902	32.950	41.593	11.087	1.00	11.70
ATOM	774	CG	LEU	902	32.615	40.230	10.473	1.00	13.49
ATOM	775	CD1	LEU	902	31.142	39.827	10.774	1.00	13.78
ATOM	776	CD2	LEU	902	32.856	40.270	8.981	1.00	12.15
ATOM	777	C	LEU	902	34.566	43.486	11.345	1.00	19.59
ATOM	778	O	LEU	902	34.466	44.380	10.510	1.00	23.95
ATOM	779	N	GLY	903	34.854	43.724	12.625	1.00	20.15
ATOM	781	CA	GLY	903	35.037	45.090	13.114	1.00	21.60
ATOM	782	C	GLY	903	35.147	45.075	14.620	1.00	24.02
ATOM	783	O	GLY	903	35.070	43.991	15.194	1.00	26.53
ATOM	784	N	ALA	904	35.305	46.236	15.269	1.00	25.19
ATOM	786	CA	ALA	904	35.411	46.293	16.740	1.00	18.80
ATOM	787	CB	ALA	904	36.830	46.074	17.177	1.00	12.62
ATOM	788	C	ALA	904	34.886	47.559	17.386	1.00	20.83

FIG. 7(16)

ATOM	789	O	ALA	904	34.789	48,616	16.765	1.00	26.12
ATOM	790	N	CYS	905	34.617	47.443	18.674	1.00	21.21
ATOM	792	CA	CYS	905	34.128	48.530	19.493	1.00	19.91
ATOM	793	CB	CYS	905	32.804	48.160	20.115	1.00	16.08
ATOM	794	SG	CYS	905	31.561	47.894	18.851	1.00	15.32
ATOM	795	C	CYS	905	35.176	48.687	20.556	1.00	23.00
ATOM	796	O	CYS	905	35.245	47.890	21.486	1.00	24.21
ATOM	797	N	THR	906	36.042	49.674	20.361	1.00	26.02
ATOM	799	CA	THR	906	37.140	49.945	21.283	1.00	29.46
ATOM	800	CB	THR	906	38.514	49.768	20.574	1.00	26.67
ATOM	801	OG1	THR	906	38.635	50.739	19.526	1.00	29.06
ATOM	803	CG2	THR	906	38.648	48.363	20.001	1.00	23.13
ATOM	804	C	THR	906	37.130	51.346	21.928	1.00	30.07
ATOM	805	O	THR	906	37.642	51.522	23.036	1.00	29.29
ATOM	806	N	LYS	907	36.582	52.332	21.228	1.00	32.81
ATOM	808	CA	LYS	907	36.554	53.686	21.745	1.00	39.38
ATOM	809	CB	LYS	907	35.982	54.637	20.701	1.00	41.03
ATOM	810	CG	LYS	907	34.536	54.432	20.386	1.00	48.86
ATOM	811	CD	LYS	907	34.071	55.528	19.427	1.00	57.25
ATOM	812	CE	LYS	907	33.996	56.878	20.143	1.00	63.62
ATOM	813	NZ	LYS	907	33.688	58.001	19.213	1.00	68.81
ATOM	817	C	LYS	907	35.796	53.779	23.070	1.00	44.43
ATOM	818	O	LYS	907	35.094	52.867	23.442	1.00	44.52
ATOM	819	N	PRO	908	36.034	54.838	23.857	1.00	49.18
ATOM	820	CD	PRO	908	37.147	55.794	23.712	1.00	50.93
ATOM	821	CA	PRO	908	35.358	55.022	25.149	1.00	46.86
ATOM	822	CB	PRO	908	35.963	56.324	25.647	1.00	49.68
ATOM	823	CG	PRO	908	37.387	56.216	25.143	1.00	51.43
ATOM	824	C	PRO	908	33.852	55.145	25.036	1.00	44.06
ATOM	825	O	PRO	908	33.345	55.600	24.008	1.00	44.40
ATOM	826	N	GLY	909	33.154	54.772	26.110	1.00	41.44
ATOM	828	CA	GLY	909	31.698	54.842	26.135	1.00	37.38
ATOM	829	C	GLY	909	30.999	53.502	26.035	1.00	38.26
ATOM	830	O	GLY	909	29.778	53.439	25.751	1.00	40.07
ATOM	831	N	GLY	910	31.753	52.424	26.264	1.00	36.39
ATOM	833	CA	GLY	910	31.178	51.087	26.190	1.00	34.35
ATOM	834	C	GLY	910	32.180	49.961	26.360	1.00	31.85
ATOM	835	O	GLY	910	33.394	50.235	26.528	1.00	27.95
ATOM	836	N	PRO	911	31.710	48.686	26.319	1.00	27.95
ATOM	837	CD	PRO	911	30.280	48.339	26.197	1.00	28.51
ATOM	838	CA	PRO	911	32.511	47.463	26.467	1.00	25.21
ATOM	839	CB	PRO	911	31.438	46.393	26.724	1.00	27.44
ATOM	840	CG	PRO	911	30.315	46.840	25.891	1.00	22.45

FIG. 7(17)

ATOM	841	C	PRO	911	33.340	47.118	25.234	1.00	22.33
ATOM	842	O	PRO	911	32.903	47.366	24.124	1.00	23.57
ATOM	843	N	LEU	912	34.548	46.581	25.430	1.00	22.75
ATOM	845	CA	LEU	912	35.412	46.177	24.308	1.00	23.22
ATOM	846	CB	LEU	912	36.778	45.685	24.812	1.00	23.67
ATOM	847	CG	LEU	912	38.095	45.759	24.005	1.00	24.34
ATOM	848	CD1	LEU	912	38.988	44.618	24.490	1.00	20.11
ATOM	849	CD2	LEU	912	37.906	45.745	22.477	1.00	12.72
ATOM	850	C	LEU	912	34.692	45.010	23.627	1.00	22.56
ATOM	851	O	LEU	912	34.342	44.029	24.283	1.00	17.69
ATOM	852	N	MET	913	34.417	45.142	22.334	1.00	24.19
ATOM	854	CA	MET	913	33.724	44.085	21.617	1.00	21.51
ATOM	855	CB	MET	913	32.264	44.456	21.429	1.00	22.09
ATOM	856	CG	MET	913	31.489	44.461	22.728	1.00	22.26
ATOM	857	SD	MET	913	29.829	45.009	22.484	1.00	24.17
ATOM	858	CE	MET	913	30.127	46.676	22.205	1.00	20.40
ATOM	859	C	MET	913	34.386	43.768	20.295	1.00	20.42
ATOM	860	O	MET	913	34.701	44.657	19.519	1.00	21.08
ATOM	861	N	VAL	914	34.703	42.491	20.102	1.00	23.72
ATOM	863	CA	VAL	914	35.354	42.001	18.891	1.00	20.24
ATOM	864	CB	VAL	914	36.614	41.170	19.232	1.00	16.92
ATOM	865	CG1	VAL	914	37.254	40.637	17.958	1.00	19.36
ATOM	866	CG2	VAL	914	37.629	42.055	19.972	1.00	13.30
ATOM	867	C	VAL	914	34.296	41.210	18.132	1.00	19.70
ATOM	868	O	VAL	914	33.836	40.191	18.587	1.00	26.45
ATOM	869	N	ILE	915	33.844	41.775	17.026	1.00	19.86
ATOM	871	CA	ILE	915	32.806	41.212	16.179	1.00	20.42
ATOM	872	CB	ILE	915	32.034	42.384	15.455	1.00	18.44
ATOM	873	CG2	ILE	915	30.721	41.909	14.869	1.00	12.35
ATOM	874	CG1	ILE	915	31.756	43.531	16.426	1.00	17.60
ATOM	875	CD1	ILE	915	31.358	44.822	15.735	1.00	15.14
ATOM	876	C	ILE	915	33.457	40.287	15.115	1.00	23.98
ATOM	877	O	ILE	915	34.361	40.722	14.373	1.00	23.30
ATOM	878	N	VAL	916	33.054	39.011	15.075	1.00	20.08
ATOM	880	CA	VAL	916	33.594	38.089	14.077	1.00	17.64
ATOM	881	CB	VAL	916	34.543	37.003	14.680	1.00	9.09
ATOM	882	CG1	VAL	916	35.703	37.685	15.350	1.00	5.05
ATOM	883	CG2	VAL	916	33.817	36.126	15.678	1.00	10.26
ATOM	884	C	VAL	916	32.422	37.486	13.342	1.00	17.74
ATOM	885	O	VAL	916	31.275	37.790	13.664	1.00	20.02
ATOM	886	N	GLU	917	32.684	36.702	12.303	1.00	14.74
ATOM	888	CA	GLU	917	31.589	36.073	11.577	1.00	13.03
ATOM	889	CB	GLU	917	32.120	35.409	10.332	1.00	14.06

FIG. 7(18)

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ATOM   890  CG  GLU  917      32.946  36.348   9.464  1.00 24.11
ATOM   891  CD  GLU  917      33.543  35.651   8.258  1.00 26.52
ATOM   892  OE1 GLU  917      33.060  35.904   7.139  1.00 27.67
ATOM   893  OE2 GLU  917      34.480  34.841   8.425  1.00 28.39
ATOM   894  C   GLU  917      30.853  35.051  12.434  1.00 14.78
ATOM   895  O   GLU  917      31.445  34.344  13.234  1.00 14.35
ATOM   896  N   PHE  918      29.557  34.958  12.229  1.00 19.12
ATOM   898  CA  PHE  918      28.688  34.042  12.966  1.00 18.07
ATOM   899  CB  PHE  918      27.334  34.721  13.168  1.00 18.48
ATOM   900  CG  PHE  918      26.275  33.840  13.748  1.00 17.83
ATOM   901  CD1 PHE  918      26.328  33.456  15.081  1.00 18.65
ATOM   902  CD2 PHE  918      25.213  33.400  12.953  1.00 21.10
ATOM   903  CE1 PHE  918      25.336  32.639  15.613  1.00 18.12
ATOM   904  CE2 PHE  918      24.210  32.580  13.473  1.00 14.29
ATOM   905  CZ  PHE  918      24.274  32.201  14.799  1.00 17.78
ATOM   906  C   PHE  918      28.487  32.805  12.113  1.00 18.83
ATOM   907  O   PHE  918      28.081  32.917  10.964  1.00 11.61
ATOM   908  N   CYS  919      28.761  31.635  12.676  1.00 19.49
ATOM   910  CA  CYS  919      28.590  30.372  11.947  1.00 19.00
ATOM   911  CB  CYS  919      29.855  29.566  12.069  1.00 16.78
ATOM   912  SG  CYS  919      31.225  30.428  11.325  1.00 16.84
ATOM   913  C   CYS  919      27.383  29.659  12.556  1.00 21.18
ATOM   914  O   CYS  919      27.474  29.135  13.676  1.00 20.69
ATOM   915  N   LYS  920      26.269  29.653  11.818  1.00 18.06
ATOM   917  CA  LYS  920      24.998  29.130  12.318  1.00 28.13
ATOM   918  CB  LYS  920      23.799  29.581  11.459  1.00 25.17
ATOM   919  CG  LYS  920      23.595  28.799  10.207  1.00 33.78
ATOM   920  CD  LYS  920      22.658  29.509   9.250  1.00 40.32
ATOM   921  CE  LYS  920      21.261  29.706   9.829  1.00 51.94
ATOM   922  NZ  LYS  920      20.343  30.396   8.845  1.00 56.09
ATOM   926  C   LYS  920      24.813  27.679  12.700  1.00 28.53
ATOM   927  O   LYS  920      24.020  27.405  13.592  1.00 31.57
ATOM   928  N   PHE  921      25.533  26.757  12.078  1.00 24.89
ATOM   930  CA  PHE  921      25.328  25.362  12.409  1.00 21.12
ATOM   931  CB  PHE  921      25.497  24.518  11.171  1.00 20.75
ATOM   932  CG  PHE  921      24.588  24.917  10.084  1.00 22.95
ATOM   933  CD1 PHE  921      23.224  24.734  10.219  1.00 27.55
ATOM   934  CD2 PHE  921      25.077  25.564   8.975  1.00 29.40
ATOM   935  CE1 PHE  921      22.362  25.205   9.269  1.00 35.42
ATOM   936  CE2 PHE  921      24.237  26.041   8.013  1.00 32.24
ATOM   937  CZ  PHE  921      22.869  25.870   8.154  1.00 38.81
ATOM   938  C   PHE  921      26.158  24.823  13.535  1.00 21.23
ATOM   939  O   PHE  921      26.002  23.664  13.900  1.00 22.74
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FIG. 7(19)

ATOM	940	N	GLY	922	27.047	25.659	14.065	1.00	18.39
ATOM	942	CA	GLY	922	27.906	25.257	15.172	1.00	17.62
ATOM	943	C	GLY	922	29.115	24.455	14.759	1.00	18.42
ATOM	944	O	GLY	922	29.331	24.230	13.581	1.00	20.81
ATOM	945	N	ASN	923	29.903	24.011	15.729	1.00	22.93
ATOM	947	CA	ASN	923	31.092	23.223	15.430	1.00	24.85
ATOM	948	CB	ASN	923	31.867	22.837	16.705	1.00	29.68
ATOM	949	CG	ASN	923	31.212	21.710	17.493	1.00	39.14
ATOM	950	OD1	ASN	923	31.252	20.550	17.087	1.00	41.11
ATOM	951	ND2	ASN	923	30.662	22.038	18.660	1.00	35.87
ATOM	954	C	ASN	923	30.818	22.019	14.523	1.00	21.09
ATOM	955	O	ASN	923	29.685	21.566	14.370	1.00	20.59
ATOM	956	N	LEU	924	31.867	21.523	13.896	1.00	21.13
ATOM	958	CA	LEU	924	31.740	20.431	12.957	1.00	22.85
ATOM	959	CB	LEU	924	33.019	20.377	12.126	1.00	23.67
ATOM	960	CG	LEU	924	33.019	19.462	10.920	1.00	17.22
ATOM	961	CD1	LEU	924	31.776	19.699	10.125	1.00	18.21
ATOM	962	CD2	LEU	924	34.268	19.729	10.095	1.00	23.82
ATOM	963	C	LEU	924	31.414	19.062	13.558	1.00	22.65
ATOM	964	O	LEU	924	30.601	18.326	13.013	1.00	26.13
ATOM	965	N	SER	925	31.035	18.742	14.687	1.00	20.06
ATOM	967	CA	SER	925	31.853	17.463	15.383	1.00	25.99
ATOM	968	CB	SER	925	32.741	17.400	16.623	1.00	27.28
ATOM	969	OG	SER	925	32.426	16.272	17.416	1.00	32.86
ATOM	971	C	SER	925	30.432	17.217	15.812	1.00	26.73
ATOM	972	O	SER	925	29.863	16.148	15.552	1.00	30.93
ATOM	973	N	THR	926	29.892	18.190	16.534	1.00	24.48
ATOM	975	CA	THR	926	28.535	18.129	16.996	1.00	19.27
ATOM	976	CB	THR	926	28.258	19.336	17.901	1.00	16.05
ATOM	977	OG1	THR	926	29.230	19.374	18.951	1.00	18.42
ATOM	979	CG2	THR	926	26.927	19.216	18.550	1.00	13.93
ATOM	980	C	THR	926	27.610	18.048	15.758	1.00	20.47
ATOM	981	O	THR	926	26.654	17.258	15.711	1.00	25.12
ATOM	982	N	TYR	927	27.961	18.760	14.701	1.00	18.97
ATOM	984	CA	TYR	927	27.128	18.715	13.515	1.00	20.97
ATOM	985	CB	TYR	927	27.597	19.720	12.464	1.00	18.52
ATOM	986	CG	TYR	927	26.708	19.683	11.230	1.00	18.69
ATOM	987	CD1	TYR	927	25.391	20.196	11.266	1.00	14.64
ATOM	988	CE1	TYR	927	24.567	20.173	10.125	1.00	13.73
ATOM	989	CD2	TYR	927	27.173	19.138	10.031	1.00	22.28
ATOM	990	CE2	TYR	927	26.347	19.104	8.879	1.00	24.92
ATOM	991	CZ	TYR	927	25.058	19.626	8.944	1.00	16.40
ATOM	992	OH	TYR	927	24.285	19.600	7.819	1.00	23.87

FIG. 7(20)

ATOM	994	C	TYR	927	27.118	17.343	12.855	1.00	23.85
ATOM	995	O	TYR	927	26.078	16.860	12.428	1.00	24.11
ATOM	996	N	LEU	928	28.313	16.793	12.665	1.00	28.91
ATOM	998	CA	LEU	928	28.513	15.495	12.020	1.00	31.09
ATOM	999	CB	LEU	928	30.017	15.192	11.863	1.00	27.50
ATOM	1000	CG	LEU	928	30.813	16.159	10.953	1.00	24.21
ATOM	1001	CD1	LEU	928	32.302	15.880	11.065	1.00	24.38
ATOM	1002	CD2	LEU	928	30.343	16.097	9.514	1.00	12.63
ATOM	1003	C	LEU	928	27.801	14.369	12.747	1.00	31.00
ATOM	1004	O	LEU	928	27.164	13.540	12.117	1.00	31.53
ATOM	1005	N	ARG	929	27.883	14.351	14.067	1.00	34.05
ATOM	1007	CA	ARG	929	27.193	13.316	14.833	1.00	40.50
ATOM	1008	CB	ARG	929	27.406	13.552	16.325	1.00	41.71
ATOM	1009	CG	ARG	929	28.358	12.605	16.969	1.00	40.42
ATOM	1010	CD	ARG	929	29.253	13.359	17.908	1.00	49.36
ATOM	1011	NE	ARG	929	28.521	13.947	19.020	1.00	62.28
ATOM	1013	CZ	ARG	929	28.946	14.985	19.749	1.00	65.86
ATOM	1014	NH1	ARG	929	28.178	15.432	20.753	1.00	66.98
ATOM	1017	NH2	ARG	929	30.122	15.573	19.492	1.00	58.39
ATOM	1020	C	ARG	929	25.678	13.304	14.529	1.00	42.76
ATOM	1021	O	ARG	929	25.075	12.234	14.370	1.00	44.84
ATOM	1022	N	SER	930	25.089	14.498	14.412	1.00	41.42
ATOM	1024	CA	SER	930	23.663	14.677	14.150	1.00	37.04
ATOM	1025	CB	SER	930	23.324	16.151	14.250	1.00	38.80
ATOM	1026	OG	SER	930	23.662	16.816	13.041	1.00	37.58
ATOM	1028	C	SER	930	23.226	14.226	12.774	1.00	38.41
ATOM	1029	O	SER	930	22.034	14.254	12.451	1.00	43.98
ATOM	1030	N	LYS	931	24.179	13.865	11.936	1.00	37.60
ATOM	1032	CA	LYS	931	23.845	13.472	10.590	1.00	38.82
ATOM	1033	CB	LYS	931	24.575	14.387	9.606	1.00	43.10
ATOM	1034	CG	LYS	931	24.388	15.864	9.884	1.00	45.62
ATOM	1035	CD	LYS	931	22.999	16.302	9.487	1.00	49.49
ATOM	1036	CE	LYS	931	22.901	16.444	7.985	1.00	46.94
ATOM	1037	NZ	LYS	931	21.501	16.690	7.568	1.00	49.54
ATOM	1041	C	LYS	931	24.136	12.011	10.264	1.00	39.02
ATOM	1042	O	LYS	931	23.991	11.615	9.111	1.00	42.79
ATOM	1043	N	ARG	932	24.522	11.199	11.247	1.00	37.44
ATOM	1045	CA	ARG	932	24.793	9.776	10.971	1.00	38.33
ATOM	1046	CB	ARG	932	25.149	9.020	12.244	1.00	33.55
ATOM	1047	CG	ARG	932	26.456	9.461	12.798	1.00	33.92
ATOM	1048	CD	ARG	932	26.812	8.729	14.043	1.00	35.88
ATOM	1049	NE	ARG	932	28.223	8.929	14.368	1.00	43.26
ATOM	1051	CZ	ARG	932	28.720	8.909	15.604	1.00	45.56

FIG. 7(21)

ATOM	1052	NH1	ARG	932	30.018	9.098	15.809	1.00	47.32
ATOM	1055	NH2	ARG	932	27.916	8.725	16.645	1.00	53.04
ATOM	1058	C	ARG	932	23.621	9.087	10.273	1.00	41.54
ATOM	1059	O	ARG	932	23.821	8.135	9.532	1.00	41.31
ATOM	1060	N	ASN	933	22.412	9.582	10.536	1.00	44.37
ATOM	1062	CA	ASN	933	21.181	9.069	9.956	1.00	47.14
ATOM	1063	CB	ASN	933	19.974	9.453	10.824	1.00	54.55
ATOM	1064	CG	ASN	933	19.783	8.545	12.050	1.00	57.14
ATOM	1065	OD1	ASN	933	20.622	7.693	12.369	1.00	54.11
ATOM	1066	ND2	ASN	933	18.668	8.752	12.757	1.00	57.76
ATOM	1069	C	ASN	933	20.974	9.680	8.589	1.00	49.60
ATOM	1070	O	ASN	933	20.260	9.125	7.753	1.00	55.62
ATOM	1071	N	GLU	934	21.494	10.888	8.403	1.00	52.11
ATOM	1073	CA	GLU	934	21.365	11.580	7.122	1.00	52.39
ATOM	1074	CB	GLU	934	20.859	13.007	7.323	1.00	56.14
ATOM	1075	CG	GLU	934	19.434	13.095	7.822	1.00	59.40
ATOM	1076	CD	GLU	934	19.332	13.686	9.211	1.00	63.97
ATOM	1077	OE1	GLU	934	18.427	13.250	9.953	1.00	69.17
ATOM	1078	OE2	GLU	934	20.138	14.580	9.563	1.00	64.27
ATOM	1079	C	GLU	934	22.677	11.593	6.332	1.00	50.45
ATOM	1080	O	GLU	934	23.188	12.663	5.961	1.00	50.70
ATOM	1081	N	PHE	935	23.205	10.396	6.070	1.00	46.25
ATOM	1083	CA	PHE	935	24.440	10.225	5.325	1.00	41.20
ATOM	1084	CB	PHE	935	25.638	10.121	6.268	1.00	40.97
ATOM	1085	CG	PHE	935	26.923	9.800	5.555	1.00	39.81
ATOM	1086	CD1	PHE	935	27.327	8.478	5.378	1.00	34.65
ATOM	1087	CD2	PHE	935	27.676	10.815	4.970	1.00	33.02
ATOM	1088	CE1	PHE	935	28.455	8.180	4.617	1.00	32.30
ATOM	1089	CE2	PHE	935	28.793	10.515	4.218	1.00	29.96
ATOM	1090	CZ	PHE	935	29.181	9.201	4.037	1.00	29.08
ATOM	1091	C	PHE	935	24.474	9.006	4.412	1.00	40.49
ATOM	1092	O	PHE	935	24.394	7.871	4.865	1.00	40.47
ATOM	1093	N	VAL	936	24.694	9.237	3.133	1.00	38.66
ATOM	1095	CA	VAL	936	24.809	8.138	2.208	1.00	43.29
ATOM	1096	CB	VAL	936	23.663	8.113	1.221	1.00	40.39
ATOM	1097	CG1	VAL	936	23.739	9.312	0.280	1.00	34.50
ATOM	1098	CG2	VAL	936	23.720	6.841	0.444	1.00	42.47
ATOM	1099	C	VAL	936	26.087	8.436	1.438	1.00	49.63
ATOM	1100	O	VAL	936	26.322	9.585	1.081	1.00	55.64
ATOM	1101	N	PRO	937	26.960	7.433	1.222	1.00	50.29
ATOM	1102	CD	PRO	937	26.966	6.087	1.822	1.00	49.69
ATOM	1103	CA	PRO	937	28.207	7.669	0.483	1.00	50.65
ATOM	1104	CB	PRO	937	28.676	6.260	0.177	1.00	46.68

FIG. 7(22)

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ATOM  1105  CG  PRO  937      28.378   5.582   1.493  1.00 47.42
ATOM  1106  C   PRO  937      28.019   8.501  -0.774  1.00 53.83
ATOM  1107  O   PRO  937      28.644   9.558  -0.937  1.00 53.64
ATOM  1108  N   TYR  938      27.153   8.046  -1.660  1.00 54.91
ATOM  1110  CA  TYR  938      26.918   8.803  -2.859  1.00 62.52
ATOM  1111  CB  TYR  938      27.580   8.161  -4.080  1.00 67.73
ATOM  1120  C   TYR  938      25.443   8.800  -3.059  1.00 67.31
ATOM  1121  O   TYR  938      24.722   8.082  -2.361  1.00 66.13
ATOM  1122  N   LYS  939      25.027   9.601  -4.038  1.00 75.30
ATOM  1124  CA  LYS  939      23.639   9.770  -4.445  1.00 81.21
ATOM  1125  CB  LYS  939      23.209  11.254  -4.284  1.00 80.04
ATOM  1126  C   LYS  939      23.543   9.331  -5.921  1.00 87.24
ATOM  1127  O   LYS  939      24.582   9.384  -6.646  1.00 90.23
ATOM  1129  CB  ASP  998      17.986  15.692   3.023  1.00 53.00
ATOM  1130  C   ASP  998      20.489  15.723   3.377  1.00 55.33
ATOM  1131  O   ASP  998      21.051  16.058   4.426  1.00 56.29
ATOM  1134  N   ASP  998      19.408  16.931   1.400  1.00 54.52
ATOM  1136  CA  ASP  998      19.279  16.514   2.829  1.00 55.12
ATOM  1137  N   PHE  999      20.900  14.687   2.653  1.00 52.90
ATOM  1139  CA  PHE  999      21.984  13.834   3.111  1.00 46.86
ATOM  1140  CB  PHE  999      21.841  12.420   2.528  1.00 51.05
ATOM  1141  CG  PHE  999      20.897  11.537   3.296  1.00 55.62
ATOM  1142  CD1 PHE  999      21.249  10.236   3.606  1.00 56.12
ATOM  1143  CD2 PHE  999      19.671  12.022   3.751  1.00 60.98
ATOM  1144  CE1 PHE  999      20.397   9.422   4.368  1.00 61.93
ATOM  1145  CE2 PHE  999      18.816  11.222   4.509  1.00 61.09
ATOM  1146  CZ  PHE  999      19.183   9.917   4.820  1.00 60.64
ATOM  1147  C   PHE  999      23.373  14.302   2.837  1.00 41.06
ATOM  1148  O   PHE  999      23.632  14.937   1.820  1.00 36.04
ATOM  1149  N   LEU 1000      24.238  14.057   3.812  1.00 37.57
ATOM  1151  CA  LEU 1000      25.651  14.326   3.652  1.00 36.08
ATOM  1152  CB  LEU 1000      26.401  14.306   4.985  1.00 35.67
ATOM  1153  CG  LEU 1000      25.923  15.286   6.057  1.00 36.23
ATOM  1154  CD1 LEU 1000      26.941  15.370   7.201  1.00 29.94
ATOM  1155  CD2 LEU 1000      25.707  16.654   5.435  1.00 38.66
ATOM  1156  C   LEU 1000      26.089  13.139   2.756  1.00 35.16
ATOM  1157  O   LEU 1000      25.330  12.167   2.569  1.00 32.68
ATOM  1158  N   THR 1001      27.292  13.228   2.201  1.00 29.92
ATOM  1160  CA  THR 1001      27.803  12.236   1.285  1.00 25.42
ATOM  1161  CB  THR 1001      27.396  12.560  -0.178  1.00 30.10
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FIG. 7(23)

ATOM	1162	OG1	THR	1001	28.055	13.771	-0.605	1.00	33.54
ATOM	1164	CG2	THR	1001	25.878	12.741	-0.326	1.00	29.24
ATOM	1165	C	THR	1001	29.303	12.388	1.338	1.00	27.68
ATOM	1166	O	THR	1001	29.805	13.303	1.985	1.00	28.02
ATOM	1167	N	LEU	1002	30.020	11.552	0.592	1.00	26.85
ATOM	1169	CA	LEU	1002	31.454	11.636	0.572	1.00	24.39
ATOM	1170	CB	LEU	1002	32.044	10.545	-0.298	1.00	22.71
ATOM	1171	CG	LEU	1002	32.269	9.304	0.573	1.00	27.80
ATOM	1172	CD1	LEU	1002	32.727	8.142	-0.280	1.00	27.11
ATOM	1173	CD2	LEU	1002	33.295	9.592	1.670	1.00	24.64
ATOM	1174	C	LEU	1002	31.908	12.995	0.099	1.00	26.97
ATOM	1175	O	LEU	1002	32.967	13.459	0.506	1.00	26.84
ATOM	1176	N	GLU	1003	31.063	13.682	-0.666	1.00	27.89
ATOM	1178	CA	GLU	1003	31.428	15.000	-1.185	1.00	28.02
ATOM	1179	CB	GLU	1003	30.419	15.503	-2.208	1.00	32.50
ATOM	1180	CG	GLU	1003	30.988	16.624	-3.077	1.00	37.49
ATOM	1181	CD	GLU	1003	31.915	16.121	-4.170	1.00	38.89
ATOM	1182	OE1	GLU	1003	33.065	15.743	-3.886	1.00	43.61
ATOM	1183	OE2	GLU	1003	31.488	16.102	-5.331	1.00	46.97
ATOM	1184	C	GLU	1003	31.591	16.044	-0.117	1.00	25.24
ATOM	1185	O	GLU	1003	32.485	16.885	-0.211	1.00	26.57
ATOM	1186	N	HIS	1004	30.748	15.953	0.913	1.00	23.16
ATOM	1188	CA	HIS	1004	30.746	16.884	2.040	1.00	19.58
ATOM	1189	CB	HIS	1004	29.508	16.719	2.912	1.00	19.12
ATOM	1190	CG	HIS	1004	28.227	17.024	2.208	1.00	23.47
ATOM	1191	CD2	HIS	1004	27.173	17.784	2.570	1.00	23.78
ATOM	1192	ND1	HIS	1004	27.911	16.508	0.964	1.00	27.88
ATOM	1194	CE1	HIS	1004	26.718	16.936	0.596	1.00	20.57
ATOM	1195	NE2	HIS	1004	26.246	17.710	1.554	1.00	23.61
ATOM	1197	C	HIS	1004	31.940	16.631	2.885	1.00	21.64
ATOM	1198	O	HIS	1004	32.753	17.508	3.075	1.00	25.00
ATOM	1199	N	LEU	1005	32.055	15.419	3.394	1.00	23.11
ATOM	1201	CA	LEU	1005	33.186	15.072	4.222	1.00	23.79
ATOM	1202	CB	LEU	1005	33.131	13.581	4.589	1.00	24.17
ATOM	1203	CG	LEU	1005	32.183	13.199	5.743	1.00	27.48
ATOM	1204	CD1	LEU	1005	31.030	14.150	5.821	1.00	25.44
ATOM	1205	CD2	LEU	1005	31.679	11.771	5.627	1.00	22.50
ATOM	1206	C	LEU	1005	34.506	15.467	3.558	1.00	20.41
ATOM	1207	O	LEU	1005	35.361	16.034	4.206	1.00	21.82
ATOM	1208	N	ILE	1006	34.668	15.212	2.264	1.00	19.50

FIG. 7(24)

ATOM	1210	CA	ILE	1006	35.914	15.589	1.609	1.00	18.77
ATOM	1211	CB	ILE	1006	36.128	14.806	0.276	1.00	16.46
ATOM	1212	CG2	ILE	1006	37.602	14.777	-0.103	1.00	12.82
ATOM	1213	CG1	ILE	1006	35.718	13.341	0.441	1.00	20.16
ATOM	1214	CD1	ILE	1006	35.961	12.446	-0.834	1.00	11.88
ATOM	1215	C	ILE	1006	35.998	17.136	1.377	1.00	22.88
ATOM	1216	O	ILE	1006	37.113	17.730	1.431	1.00	21.25
ATOM	1217	N	CYS	1007	34.854	17.788	1.108	1.00	21.47
ATOM	1219	CA	CYS	1007	34.860	19.240	0.909	1.00	21.66
ATOM	1220	CB	CYS	1007	33.522	19.825	0.431	1.00	24.87
ATOM	1221	SG	CYS	1007	33.760	21.544	-0.085	1.00	30.17
ATOM	1222	C	CYS	1007	35.247	19.953	2.196	1.00	22.22
ATOM	1223	O	CYS	1007	36.024	20.905	2.158	1.00	25.94
ATOM	1224	N	TYR	1008	34.691	19.527	3.331	1.00	20.53
ATOM	1226	CA	TYR	1008	35.030	20.132	4.617	1.00	17.94
ATOM	1227	CB	TYR	1008	34.248	19.493	5.758	1.00	18.61
ATOM	1228	CG	TYR	1008	32.753	19.488	5.626	1.00	17.97
ATOM	1229	CD1	TYR	1008	32.019	18.455	6.175	1.00	16.67
ATOM	1230	CE1	TYR	1008	30.641	18.462	6.158	1.00	22.78
ATOM	1231	CD2	TYR	1008	32.059	20.549	5.031	1.00	22.19
ATOM	1232	CE2	TYR	1008	30.646	20.569	5.011	1.00	20.60
ATOM	1233	CZ	TYR	1008	29.949	19.513	5.579	1.00	23.22
ATOM	1234	OH	TYR	1008	28.574	19.454	5.551	1.00	18.30
ATOM	1236	C	TYR	1008	36.537	19.945	4.883	1.00	18.55
ATOM	1237	O	TYR	1008	37.217	20.917	5.256	1.00	20.35
ATOM	1238	N	SER	1009	37.056	18.726	4.642	1.00	14.74
ATOM	1240	CA	SER	1009	38.476	18.409	4.852	1.00	13.39
ATOM	1241	CB	SER	1009	38.810	16.962	4.473	1.00	17.24
ATOM	1242	OG	SER	1009	38.018	16.001	5.152	1.00	26.04
ATOM	1244	C	SER	1009	39.310	19.309	3.985	1.00	16.36
ATOM	1245	O	SER	1009	40.317	19.864	4.446	1.00	20.21
ATOM	1246	N	PHE	1010	38.953	19.375	2.699	1.00	20.97
ATOM	1248	CA	PHE	1010	39.654	20.246	1.742	1.00	23.34
ATOM	1249	CB	PHE	1010	38.985	20.126	0.365	1.00	18.83
ATOM	1250	CG	PHE	1010	39.605	21.002	-0.685	1.00	17.13
ATOM	1251	CD1	PHE	1010	38.830	21.940	-1.370	1.00	13.94
ATOM	1252	CD2	PHE	1010	40.979	20.918	-0.968	1.00	17.85
ATOM	1253	CE1	PHE	1010	39.410	22.804	-2.339	1.00	16.30
ATOM	1254	CE2	PHE	1010	41.569	21.763	-1.917	1.00	17.15
ATOM	1255	CZ	PHE	1010	40.772	22.714	-2.608	1.00	18.02

FIG. 7(25)

ATOM	1256	C	PHE	1010	39.688	21.746	2.242	1.00	22.02
ATOM	1257	O	PHE	1010	40.749	22.390	2.298	1.00	23.00
ATOM	1258	N	GLN	1011	38.535	22.271	2.643	1.00	19.25
ATOM	1260	CA	GLN	1011	38.418	23.640	3.159	1.00	19.07
ATOM	1261	CB	GLN	1011	36.980	23.945	3.480	1.00	12.84
ATOM	1262	CG	GLN	1011	36.117	24.005	2.270	1.00	6.53
ATOM	1263	CD	GLN	1011	34.713	24.371	2.659	1.00	18.81
ATOM	1264	OE1	GLN	1011	34.490	25.382	3.347	1.00	21.22
ATOM	1265	NE2	GLN	1011	33.760	23.525	2.302	1.00	26.88
ATOM	1268	C	GLN	1011	39.262	23.894	4.394	1.00	18.28
ATOM	1269	O	GLN	1011	39.840	24.982	4.543	1.00	19.80
ATOM	1270	N	VAL	1012	39.270	22.934	5.319	1.00	11.82
ATOM	1272	CA	VAL	1012	40.110	23.063	6.500	1.00	13.54
ATOM	1273	CB	VAL	1012	39.825	21.936	7.528	1.00	15.67
ATOM	1274	CG1	VAL	1012	40.686	22.107	8.795	1.00	10.56
ATOM	1275	CG2	VAL	1012	38.370	21.948	7.901	1.00	14.92
ATOM	1276	C	VAL	1012	41.618	23.068	6.068	1.00	16.72
ATOM	1277	O	VAL	1012	42.448	23.782	6.665	1.00	20.48
ATOM	1278	N	ALA	1013	42.001	22.291	5.051	1.00	15.90
ATOM	1280	CA	ALA	1013	43.401	22.352	4.602	1.00	17.77
ATOM	1281	CB	ALA	1013	43.732	21.206	3.638	1.00	10.59
ATOM	1282	C	ALA	1013	43.685	23.755	3.963	1.00	15.74
ATOM	1283	O	ALA	1013	44.764	24.302	4.139	1.00	17.49
ATOM	1284	N	LYS	1014	42.718	24.342	3.244	1.00	17.18
ATOM	1286	CA	LYS	1014	42.866	25.706	2.665	1.00	15.11
ATOM	1287	CB	LYS	1014	41.557	26.152	2.020	1.00	23.73
ATOM	1288	CG	LYS	1014	41.146	25.474	0.748	1.00	23.57
ATOM	1289	CD	LYS	1014	41.963	26.033	-0.354	1.00	26.38
ATOM	1290	CE	LYS	1014	41.172	25.978	-1.617	1.00	38.71
ATOM	1291	NZ	LYS	1014	42.034	26.404	-2.776	1.00	50.36
ATOM	1295	C	LYS	1014	43.105	26.678	3.823	1.00	11.16
ATOM	1296	O	LYS	1014	44.066	27.452	3.818	1.00	13.85
ATOM	1297	N	GLY	1015	42.210	26.590	4.816	1.00	10.82
ATOM	1299	CA	GLY	1015	42.250	27.403	6.017	1.00	12.48
ATOM	1300	C	GLY	1015	43.584	27.327	6.715	1.00	17.17
ATOM	1301	O	GLY	1015	44.124	28.349	7.130	1.00	19.92
ATOM	1302	N	MET	1016	44.159	26.128	6.763	1.00	17.82
ATOM	1304	CA	MET	1016	45.426	25.927	7.439	1.00	15.78
ATOM	1305	CB	MET	1016	45.516	24.488	7.925	1.00	17.77
ATOM	1306	CG	MET	1016	44.538	24.156	9.057	1.00	15.19
ATOM	1307	SD	MET	1016	44.931	24.991	10.623	1.00	15.49

FIG. 7(26)

ATOM	1308	CE	MET	1016	46.642	24.894	10.658	1.00	5.63
ATOM	1309	C	MET	1016	46.625	26.321	6.618	1.00	14.62
ATOM	1310	O	MET	1016	47.680	26.667	7.163	1.00	15.76
ATOM	1311	N	GLU	1017	46.487	26.208	5.305	1.00	14.65
ATOM	1313	CA	GLU	1017	47.552	26.608	4.384	1.00	21.43
ATOM	1314	CB	GLU	1017	47.177	26.195	2.947	1.00	21.43
ATOM	1315	CG	GLU	1017	48.162	26.622	1.878	1.00	22.82
ATOM	1316	CD	GLU	1017	47.634	26.421	0.436	1.00	27.12
ATOM	1317	OE1	GLU	1017	46.457	26.769	0.141	1.00	24.95
ATOM	1318	OE2	GLU	1017	48.418	25.927	-0.424	1.00	32.93
ATOM	1319	C	GLU	1017	47.667	28.145	4.535	1.00	18.38
ATOM	1320	O	GLU	1017	48.760	28.668	4.593	1.00	17.43
ATOM	1321	N	PHE	1018	46.526	28.839	4.677	1.00	19.09
ATOM	1323	CA	PHE	1018	46.509	30.295	4.894	1.00	20.74
ATOM	1324	CB	PHE	1018	45.067	30.848	4.870	1.00	27.18
ATOM	1325	CG	PHE	1018	44.942	32.338	5.248	1.00	25.91
ATOM	1326	CD1	PHE	1018	44.477	32.718	6.521	1.00	26.19
ATOM	1327	CD2	PHE	1018	45.300	33.345	4.348	1.00	25.16
ATOM	1328	CE1	PHE	1018	44.381	34.059	6.890	1.00	27.10
ATOM	1329	CE2	PHE	1018	45.208	34.708	4.712	1.00	28.34
ATOM	1330	CZ	PHE	1018	44.754	35.064	5.982	1.00	26.60
ATOM	1331	C	PHE	1018	47.179	30.663	6.216	1.00	18.20
ATOM	1332	O	PHE	1018	48.139	31.430	6.228	1.00	15.08
ATOM	1333	N	LEU	1019	46.676	30.122	7.328	1.00	16.94
ATOM	1335	CA	LEU	1019	47.259	30.414	8.654	1.00	19.44
ATOM	1336	CB	LEU	1019	46.673	29.533	9.754	1.00	22.88
ATOM	1337	CG	LEU	1019	45.238	29.773	10.165	1.00	24.41
ATOM	1338	CD1	LEU	1019	44.956	28.916	11.388	1.00	24.01
ATOM	1339	CD2	LEU	1019	45.084	31.277	10.485	1.00	25.61
ATOM	1340	C	LEU	1019	48.736	30.173	8.660	1.00	19.44
ATOM	1341	O	LEU	1019	49.493	30.896	9.316	1.00	18.98
ATOM	1342	N	ALA	1020	49.135	29.076	8.023	1.00	19.45
ATOM	1344	CA	ALA	1020	50.545	28.747	7.961	1.00	22.29
ATOM	1345	CB	ALA	1020	50.748	27.350	7.397	1.00	21.86
ATOM	1346	C	ALA	1020	51.252	29.829	7.115	1.00	26.13
ATOM	1347	O	ALA	1020	52.348	30.257	7.471	1.00	25.25
ATOM	1348	N	SER	1021	50.600	30.323	6.050	1.00	29.72
ATOM	1350	CA	SER	1021	51.194	31.384	5.219	1.00	27.59
ATOM	1351	CB	SER	1021	50.289	31.754	4.026	1.00	23.95

FIG. 7(27)

ATOM	1352	OG	SER	1021	49.252	32.662	4.349	1.00	22.60
ATOM	1354	C	SER	1021	51.469	32.614	6.109	1.00	32.83
ATOM	1355	O	SER	1021	52.570	33.172	6.073	1.00	36.57
ATOM	1356	N	ARG	1022	50.513	32.957	6.981	1.00	31.88
ATOM	1358	CA	ARG	1022	50.645	34.093	7.901	1.00	22.64
ATOM	1359	CB	ARG	1022	49.294	34.483	8.465	1.00	17.89
ATOM	1360	CG	ARG	1022	48.254	34.691	7.420	1.00	17.72
ATOM	1361	CD	ARG	1022	48.648	35.816	6.468	1.00	18.00
ATOM	1362	NE	ARG	1022	49.714	36.666	6.993	1.00	31.94
ATOM	1364	CZ	ARG	1022	49.625	37.980	7.168	1.00	30.72
ATOM	1365	NH1	ARG	1022	50.653	38.644	7.662	1.00	23.85
ATOM	1368	NH2	ARG	1022	48.508	38.620	6.862	1.00	40.00
ATOM	1371	C	ARG	1022	51.563	33.787	9.056	1.00	24.84
ATOM	1372	O	ARG	1022	51.718	34.612	9.960	1.00	23.27
ATOM	1373	N	LYS	1023	52.115	32.576	9.061	1.00	23.84
ATOM	1375	CA	LYS	1023	53.039	32.137	10.094	1.00	23.59
ATOM	1376	CB	LYS	1023	54.237	33.067	10.196	1.00	22.44
ATOM	1377	C	LYS	1023	52.404	31.899	11.456	1.00	25.21
ATOM	1378	O	LYS	1023	53.054	32.024	12.504	1.00	28.54
ATOM	1379	N	CYS	1024	51.164	31.435	11.411	1.00	20.82
ATOM	1381	CA	CYS	1024	50.404	31.114	12.595	1.00	28.12
ATOM	1382	CB	CYS	1024	48.982	31.709	12.472	1.00	30.32
ATOM	1383	SG	CYS	1024	48.936	33.504	12.847	1.00	33.73
ATOM	1384	C	CYS	1024	50.388	29.576	12.729	1.00	32.20
ATOM	1385	O	CYS	1024	50.636	28.882	11.756	1.00	38.70
ATOM	1386	N	ILE	1025	50.167	29.057	13.934	1.00	30.55
ATOM	1388	CA	ILE	1025	50.123	27.619	14.216	1.00	33.60
ATOM	1389	CB	ILE	1025	51.406	27.169	14.970	1.00	36.10
ATOM	1390	CG2	ILE	1025	51.223	25.807	15.619	1.00	38.88
ATOM	1391	CG1	ILE	1025	52.585	27.121	13.988	1.00	38.38
ATOM	1392	CD1	ILE	1025	53.913	27.422	14.604	1.00	34.51
ATOM	1393	C	ILE	1025	48.891	27.526	15.104	1.00	33.66
ATOM	1394	O	ILE	1025	48.751	28.301	16.034	1.00	41.71
ATOM	1395	N	HIS	1026	47.958	26.643	14.797	1.00	31.27
ATOM	1397	CA	HIS	1026	46.742	26.570	15.589	1.00	27.97
ATOM	1398	CB	HIS	1026	45.691	25.745	14.861	1.00	23.43
ATOM	1399	CG	HIS	1026	44.283	26.091	15.229	1.00	30.06
ATOM	1400	CD2	HIS	1026	43.342	26.801	14.560	1.00	33.43
ATOM	1401	ND1	HIS	1026	43.680	25.659	16.393	1.00	24.53

FIG. 7(28)

ATOM	1403	CE1	HIS	1026	42.428	26.085	16.424	1.00	26.31
ATOM	1404	NE2	HIS	1026	42.199	26.781	15.321	1.00	29.05
ATOM	1406	C	HIS	1026	46.901	26.086	17.036	1.00	30.13
ATOM	1407	O	HIS	1026	46.335	26.681	17.955	1.00	37.96
ATOM	1408	N	ARG	1027	47.662	25.024	17.244	1.00	26.58
ATOM	1410	CA	ARG	1027	47.872	24.429	18.583	1.00	31.87
ATOM	1411	CB	ARG	1027	48.235	25.483	19.666	1.00	20.17
ATOM	1412	C	ARG	1027	46.762	23.449	19.055	1.00	31.55
ATOM	1413	O	ARG	1027	47.047	22.477	19.742	1.00	38.11
ATOM	1414	N	ASP	1028	45.528	23.629	18.597	1.00	30.85
ATOM	1416	CA	ASP	1028	44.466	22.698	18.955	1.00	26.34
ATOM	1417	CB	ASP	1028	43.788	23.098	20.248	1.00	32.60
ATOM	1418	CG	ASP	1028	42.847	22.020	20.755	1.00	35.64
ATOM	1419	OD1	ASP	1028	41.692	22.346	21.096	1.00	36.08
ATOM	1420	OD2	ASP	1028	43.267	20.842	20.790	1.00	40.39
ATOM	1421	C	ASP	1028	43.435	22.565	17.841	1.00	26.23
ATOM	1422	O	ASP	1028	42.276	22.926	17.998	1.00	23.40
ATOM	1423	N	LEU	1029	43.884	22.034	16.708	1.00	24.88
ATOM	1425	CA	LEU	1029	43.053	21.842	15.533	1.00	23.16
ATOM	1426	CB	LEU	1029	43.958	21.772	14.299	1.00	18.78
ATOM	1427	CG	LEU	1029	43.221	21.714	12.965	1.00	20.21
ATOM	1428	CD1	LEU	1029	42.349	22.952	12.812	1.00	15.13
ATOM	1429	CD2	LEU	1029	44.249	21.601	11.827	1.00	22.91
ATOM	1430	C	LEU	1029	42.237	20.562	15.700	1.00	25.25
ATOM	1431	O	LEU	1029	42.765	19.473	15.591	1.00	30.47
ATOM	1432	N	ALA	1030	40.949	20.703	15.957	1.00	25.99
ATOM	1434	CA	ALA	1030	40.062	19.574	16.182	1.00	25.19
ATOM	1435	CB	ALA	1030	39.872	19.387	17.679	1.00	24.55
ATOM	1436	C	ALA	1030	38.761	20.007	15.558	1.00	27.35
ATOM	1437	O	ALA	1030	38.611	21.202	15.302	1.00	33.46
ATOM	1438	N	ALA	1031	37.797	19.094	15.379	1.00	25.19
ATOM	1440	CA	ALA	1031	36.508	19.451	14.752	1.00	22.16
ATOM	1441	CB	ALA	1031	35.772	18.210	14.270	1.00	21.71
ATOM	1442	C	ALA	1031	35.551	20.353	15.536	1.00	20.96
ATOM	1443	O	ALA	1031	34.639	20.950	14.944	1.00	21.36
ATOM	1444	N	ARG	1032	35.712	20.388	16.859	1.00	22.49
ATOM	1446	CA	ARG	1032	34.898	21.246	17.736	1.00	27.01
ATOM	1447	CB	ARG	1032	35.157	20.945	19.220	1.00	25.22
ATOM	1448	CG	ARG	1032	36.534	21.451	19.707	1.00	34.44
ATOM	1449	CD	ARG	1032	37.150	20.503	20.770	1.00	46.39

FIG. 7(29)

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ATOM  1450 NE  ARG 1032      38.554  20.752  21.158  1.00 41.28
ATOM  1452 CZ  ARG 1032      39.464  19.799  21.352  1.00 32.28
ATOM  1453 NH1 ARG 1032      40.677  20.129  21.709  1.00 27.74
ATOM  1456 NH2 ARG 1032      39.178  18.524  21.148  1.00 31.24
ATOM  1459 C   ARG 1032      35.296  22.708  17.482  1.00 25.91
ATOM  1460 O   ARG 1032      34.601  23.605  17.935  1.00 30.23
ATOM  1461 N   ASN 1033      36.451  22.911  16.840  1.00 20.90
ATOM  1463 CA  ASN 1033      37.008  24.222  16.495  1.00 15.77
ATOM  1464 CB  ASN 1033      38.497  24.290  16.813  1.00 18.29
ATOM  1465 CG  ASN 1033      38.760  24.160  18.254  1.00 20.60
ATOM  1466 OD1 ASN 1033      37.891  24.445  19.067  1.00 29.84
ATOM  1467 ND2 ASN 1033      39.929  23.677  18.601  1.00 18.08
ATOM  1470 C   ASN 1033      36.839  24.535  15.019  1.00 19.29
ATOM  1471 O   ASN 1033      37.619  25.303  14.450  1.00 17.18
ATOM  1472 N   ILE 1034      35.934  23.822  14.366  1.00 17.56
ATOM  1474 CA  ILE 1034      35.631  24.092  12.972  1.00 17.92
ATOM  1475 CB  ILE 1034      35.813  22.868  12.091  1.00 15.66
ATOM  1476 CG2 ILE 1034      35.364  23.192  10.647  1.00 12.61
ATOM  1477 CG1 ILE 1034      37.247  22.349  12.221  1.00 10.08
ATOM  1478 CD1 ILE 1034      38.312  23.384  11.994  1.00 18.10
ATOM  1479 C   ILE 1034      34.147  24.381  13.075  1.00 21.87
ATOM  1480 O   ILE 1034      33.410  23.592  13.669  1.00 26.72
ATOM  1481 N   LEU 1035      33.711  25.524  12.575  1.00 21.91
ATOM  1483 CA  LEU 1035      32.311  25.883  12.670  1.00 19.45
ATOM  1484 CB  LEU 1035      32.190  27.310  13.181  1.00 18.73
ATOM  1485 CG  LEU 1035      32.102  27.454  14.691  1.00 21.53
ATOM  1486 CD1 LEU 1035      33.019  26.518  15.456  1.00  8.66
ATOM  1487 CD2 LEU 1035      32.391  28.881  15.016  1.00 19.34
ATOM  1488 C   LEU 1035      31.700  25.764  11.316  1.00 20.15
ATOM  1489 O   LEU 1035      32.377  25.977  10.310  1.00 21.51
ATOM  1490 N   LEU 1036      30.429  25.390  11.275  1.00 24.13
ATOM  1492 CA  LEU 1036      29.745  25.237  10.006  1.00 26.96
ATOM  1493 CB  LEU 1036      29.027  23.882   9.909  1.00 20.57
ATOM  1494 CG  LEU 1036      28.149  23.631   8.681  1.00 17.23
ATOM  1495 CD1 LEU 1036      28.877  23.617   7.360  1.00  7.53
ATOM  1496 CD2 LEU 1036      27.566  22.306   8.900  1.00 18.85
ATOM  1497 C   LEU 1036      28.827  26.432   9.755  1.00 31.45
ATOM  1498 O   LEU 1036      27.953  26.794  10.557  1.00 29.93
ATOM  1499 N   SER 1037      29.094  27.061   8.628  1.00 34.52
ATOM  1501 CA  SER 1037      28.410  28.248   8.215  1.00 37.11
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FIG. 7(30)

ATOM	1502	CB	SER	1037	29.448	29.220	7.632	1.00	41.11
ATOM	1503	OG	SER	1037	28.879	30.439	7.193	1.00	44.80
ATOM	1505	C	SER	1037	27.367	27.890	7.209	1.00	39.39
ATOM	1506	O	SER	1037	27.045	26.735	7.024	1.00	42.14
ATOM	1507	N	GLU	1038	26.884	28.912	6.531	1.00	44.94
ATOM	1509	CA	GLU	1038	25.845	28.806	5.534	1.00	50.37
ATOM	1510	CB	GLU	1038	25.685	30.152	4.792	1.00	56.15
ATOM	1511	CG	GLU	1038	25.599	31.391	5.676	1.00	55.19
ATOM	1512	CD	GLU	1038	24.518	31.270	6.708	1.00	59.42
ATOM	1513	OE1	GLU	1038	23.464	30.637	6.419	1.00	58.62
ATOM	1514	OE2	GLU	1038	24.736	31.806	7.816	1.00	63.52
ATOM	1515	C	GLU	1038	25.954	27.672	4.518	1.00	51.35
ATOM	1516	O	GLU	1038	25.619	26.521	4.816	1.00	57.04
ATOM	1517	N	LYS	1039	26.414	27.997	3.317	1.00	46.28
ATOM	1519	CA	LYS	1039	26.467	27.021	2.251	1.00	43.05
ATOM	1520	CB	LYS	1039	26.455	27.729	0.898	1.00	41.05
ATOM	1521	C	LYS	1039	27.689	26.155	2.401	1.00	44.31
ATOM	1522	O	LYS	1039	28.687	26.358	1.697	1.00	50.06
ATOM	1523	N	ASN	1040	27.611	25.210	3.339	1.00	37.02
ATOM	1525	CA	ASN	1040	28.701	24.283	3.630	1.00	32.65
ATOM	1526	CB	ASN	1040	28.647	23.041	2.761	1.00	31.69
ATOM	1527	CG	ASN	1040	27.641	22.061	3.267	1.00	31.29
ATOM	1528	OD1	ASN	1040	26.740	21.693	2.553	1.00	38.80
ATOM	1529	ND2	ASN	1040	27.749	21.680	4.530	1.00	36.05
ATOM	1532	C	ASN	1040	30.096	24.844	3.656	1.00	28.45
ATOM	1533	O	ASN	1040	31.079	24.162	3.300	1.00	26.00
ATOM	1534	N	VAL	1041	30.174	26.101	4.073	1.00	23.77
ATOM	1536	CA	VAL	1041	31.447	26.739	4.207	1.00	16.56
ATOM	1537	CB	VAL	1041	31.382	28.274	3.940	1.00	16.16
ATOM	1538	CG1	VAL	1041	32.709	28.948	4.315	1.00	8.57
ATOM	1539	CG2	VAL	1041	31.124	28.509	2.470	1.00	6.79
ATOM	1540	C	VAL	1041	31.726	26.382	5.646	1.00	15.50
ATOM	1541	O	VAL	1041	30.825	26.333	6.485	1.00	9.73
ATOM	1542	N	VAL	1042	32.967	26.022	5.883	1.00	18.82
ATOM	1544	CA	VAL	1042	33.431	25.607	7.185	1.00	19.76
ATOM	1545	CB	VAL	1042	33.907	24.110	7.051	1.00	22.19
ATOM	1546	CG1	VAL	1042	35.439	23.993	7.041	1.00	18.66
ATOM	1547	CG2	VAL	1042	33.247	23.242	8.100	1.00	22.95
ATOM	1548	C	VAL	1042	34.580	26.607	7.483	1.00	20.50
ATOM	1549	O	VAL	1042	35.348	26.960	6.575	1.00	17.75

FIG. 7(31)

ATOM	1550	N	LYS	1043	34.675	27.082	8.726	1.00	18.30
ATOM	1552	CA	LYS	1043	35.679	28.070	9.103	1.00	17.43
ATOM	1553	CB	LYS	1043	34.977	29.420	9.277	1.00	17.68
ATOM	1554	CG	LYS	1043	34.202	29.845	8.031	1.00	19.19
ATOM	1555	CD	LYS	1043	33.560	31.228	8.186	1.00	26.86
ATOM	1556	CE	LYS	1043	33.270	31.885	6.820	1.00	18.32
ATOM	1557	NZ	LYS	1043	34.353	32.806	6.425	1.00	22.63
ATOM	1561	C	LYS	1043	36.373	27.687	10.399	1.00	18.35
ATOM	1562	O	LYS	1043	35.709	27.235	11.330	1.00	17.37
ATOM	1563	N	ILE	1044	37.692	27.880	10.461	1.00	17.47
ATOM	1565	CA	ILE	1044	38.504	27.558	11.645	1.00	21.49
ATOM	1566	CB	ILE	1044	40.010	27.390	11.267	1.00	20.48
ATOM	1567	CG2	ILE	1044	40.896	27.250	12.502	1.00	15.75
ATOM	1568	CG1	ILE	1044	40.221	26.237	10.300	1.00	14.66
ATOM	1569	CD1	ILE	1044	41.584	26.344	9.669	1.00	12.76
ATOM	1570	C	ILE	1044	38.432	28.735	12.626	1.00	30.73
ATOM	1571	O	ILE	1044	38.370	29.888	12.207	1.00	31.68
ATOM	1572	N	CYS	1045	38.454	28.436	13.918	1.00	38.50
ATOM	1574	CA	CYS	1045	38.437	29.444	14.968	1.00	48.73
ATOM	1575	CB	CYS	1045	37.027	29.586	15.558	1.00	50.35
ATOM	1576	SG	CYS	1045	36.259	28.069	16.173	1.00	59.69
ATOM	1577	C	CYS	1045	39.473	29.041	16.033	1.00	54.63
ATOM	1578	O	CYS	1045	39.981	27.912	15.986	1.00	54.88
ATOM	1579	N	ASP	1046	39.811	29.954	16.956	1.00	64.20
ATOM	1581	CA	ASP	1046	40.816	29.700	18.021	1.00	69.98
ATOM	1582	CB	ASP	1046	40.454	28.407	18.788	1.00	72.94
ATOM	1583	CG	ASP	1046	41.338	28.165	20.009	1.00	75.40
ATOM	1584	OD1	ASP	1046	40.930	28.584	21.110	1.00	77.66
ATOM	1585	OD2	ASP	1046	42.428	27.547	19.878	1.00	75.18
ATOM	1586	C	ASP	1046	42.219	29.580	17.354	1.00	74.21
ATOM	1587	O	ASP	1046	43.183	29.036	17.940	1.00	74.94
ATOM	1588	N	PHE	1047	42.307	30.205	16.171	1.00	75.46
ATOM	1590	CA	PHE	1047	43.462	30.212	15.245	1.00	71.53
ATOM	1591	CB	PHE	1047	42.919	30.267	13.790	1.00	72.10
ATOM	1592	CG	PHE	1047	41.906	31.381	13.526	1.00	71.34
ATOM	1593	CD1	PHE	1047	42.139	32.327	12.526	1.00	74.26
ATOM	1594	CD2	PHE	1047	40.747	31.501	14.284	1.00	69.46
ATOM	1595	CE1	PHE	1047	41.242	33.367	12.293	1.00	70.87
ATOM	1596	CE2	PHE	1047	39.847	32.533	14.066	1.00	67.97
ATOM	1597	CZ	PHE	1047	40.096	33.467	13.068	1.00	71.41

FIG. 7(32)

ATOM	1598	C	PHE	1047	44.681	31.163	15.426	1.00	67.78
ATOM	1599	O	PHE	1047	44.507	32.345	15.797	1.00	63.26
ATOM	1601	CB	ASP	1064	29.579	17.003	25.123	1.00	69.86
ATOM	1602	CG	ASP	1064	30.534	16.464	24.050	1.00	69.93
ATOM	1603	OD1	ASP	1064	31.028	15.321	24.179	1.00	71.35
ATOM	1604	OD2	ASP	1064	30.776	17.189	23.063	1.00	71.45
ATOM	1605	C	ASP	1064	31.511	17.821	26.539	1.00	64.90
ATOM	1606	O	ASP	1064	31.512	19.029	26.788	1.00	64.09
ATOM	1609	N	ASP	1064	29.229	17.550	27.534	1.00	67.30
ATOM	1611	CA	ASP	1064	30.204	17.019	26.533	1.00	67.58
ATOM	1612	N	ALA	1065	32.617	17.135	26.278	1.00	61.87
ATOM	1614	CA	ALA	1065	33.932	17.759	26.244	1.00	58.06
ATOM	1615	CB	ALA	1065	34.479	17.935	27.650	1.00	56.61
ATOM	1616	C	ALA	1065	34.888	16.915	25.397	1.00	57.97
ATOM	1617	O	ALA	1065	34.491	15.906	24.788	1.00	56.86
ATOM	1618	N	ARG	1066	36.155	17.313	25.400	1.00	54.64
ATOM	1620	CA	ARG	1066	37.182	16.664	24.607	1.00	50.99
ATOM	1621	CB	ARG	1066	37.538	17.539	23.393	1.00	49.53
ATOM	1622	CG	ARG	1066	36.459	17.608	22.335	1.00	52.76
ATOM	1623	CD	ARG	1066	36.866	16.805	21.125	1.00	57.63
ATOM	1624	NE	ARG	1066	35.847	16.645	20.093	1.00	57.02
ATOM	1626	CZ	ARG	1066	35.976	17.033	18.824	1.00	55.63
ATOM	1627	NH1	ARG	1066	34.984	16.797	17.995	1.00	57.63
ATOM	1630	NH2	ARG	1066	37.046	17.691	18.385	1.00	40.52
ATOM	1633	C	ARG	1066	38.428	16.513	25.427	1.00	49.01
ATOM	1634	O	ARG	1066	38.652	17.274	26.364	1.00	46.29
ATOM	1635	N	LEU	1067	39.251	15.546	25.041	1.00	46.48
ATOM	1637	CA	LEU	1067	40.510	15.320	25.709	1.00	45.62
ATOM	1638	CB	LEU	1067	40.703	13.840	26.073	1.00	45.53
ATOM	1639	CG	LEU	1067	41.335	13.519	27.441	1.00	44.07
ATOM	1640	CD1	LEU	1067	42.236	12.322	27.273	1.00	37.52
ATOM	1641	CD2	LEU	1067	42.109	14.710	28.057	1.00	39.60
ATOM	1642	C	LEU	1067	41.530	15.778	24.677	1.00	42.00
ATOM	1643	O	LEU	1067	41.983	15.010	23.832	1.00	41.05
ATOM	1644	N	PRO	1068	41.854	17.072	24.698	1.00	41.22
ATOM	1645	CD	PRO	1068	41.265	18.104	25.584	1.00	34.16
ATOM	1646	CA	PRO	1068	42.817	17.661	23.761	1.00	38.41
ATOM	1647	CB	PRO	1068	42.919	19.104	24.277	1.00	36.08
ATOM	1648	CG	PRO	1068	41.496	19.355	24.828	1.00	29.23
ATOM	1649	C	PRO	1068	44.197	16.961	23.571	1.00	35.36

FIG. 7(33)

ATOM	1650	O	PRO	1068	44.932	17.258	22.623	1.00	37.80
ATOM	1651	N	LEU	1069	44.552	16.040	24.455	1.00	33.98
ATOM	1653	CA	LEU	1069	45.829	15.337	24.333	1.00	35.06
ATOM	1654	CB	LEU	1069	46.092	14.517	25.601	1.00	37.80
ATOM	1655	CG	LEU	1069	47.228	13.497	25.488	1.00	40.67
ATOM	1656	CD1	LEU	1069	48.599	14.156	25.752	1.00	36.35
ATOM	1657	CD2	LEU	1069	46.939	12.333	26.445	1.00	40.75
ATOM	1658	C	LEU	1069	45.776	14.397	23.121	1.00	34.16
ATOM	1659	O	LEU	1069	46.787	14.115	22.461	1.00	32.14
ATOM	1660	N	LYS	1070	44.571	13.916	22.859	1.00	28.95
ATOM	1662	CA	LYS	1070	44.280	13.014	21.765	1.00	28.17
ATOM	1663	CB	LYS	1070	42.828	12.569	21.911	1.00	22.17
ATOM	1664	CG	LYS	1070	42.553	11.730	23.144	1.00	22.02
ATOM	1665	CD	LYS	1070	41.085	11.317	23.107	1.00	24.17
ATOM	1666	CE	LYS	1070	40.851	9.908	23.646	1.00	29.35
ATOM	1667	NZ	LYS	1070	39.444	9.436	23.439	1.00	35.82
ATOM	1671	C	LYS	1070	44.518	13.582	20.340	1.00	29.26
ATOM	1672	O	LYS	1070	44.368	12.867	19.344	1.00	27.81
ATOM	1673	N	TRP	1071	44.862	14.865	20.260	1.00	27.00
ATOM	1675	CA	TRP	1071	45.086	15.550	18.995	1.00	27.37
ATOM	1676	CB	TRP	1071	44.191	16.827	18.882	1.00	20.67
ATOM	1677	CG	TRP	1071	42.724	16.551	18.545	1.00	20.12
ATOM	1678	CD2	TRP	1071	41.685	16.138	19.451	1.00	17.97
ATOM	1679	CE2	TRP	1071	40.524	15.892	18.675	1.00	13.02
ATOM	1680	CE3	TRP	1071	41.628	15.944	20.838	1.00	23.76
ATOM	1681	CD1	TRP	1071	42.153	16.560	17.304	1.00	19.50
ATOM	1682	NE1	TRP	1071	40.834	16.155	17.373	1.00	13.62
ATOM	1684	CZ2	TRP	1071	39.342	15.465	19.233	1.00	16.22
ATOM	1685	CZ3	TRP	1071	40.439	15.511	21.396	1.00	20.67
ATOM	1686	CH2	TRP	1071	39.321	15.273	20.594	1.00	19.47
ATOM	1687	C	TRP	1071	46.523	15.961	18.889	1.00	26.26
ATOM	1688	O	TRP	1071	46.948	16.465	17.842	1.00	28.70
ATOM	1689	N	MET	1072	47.278	15.713	19.959	1.00	24.85
ATOM	1691	CA	MET	1072	48.676	16.119	20.034	1.00	22.67
ATOM	1692	CB	MET	1072	49.066	16.317	21.487	1.00	31.30
ATOM	1693	CG	MET	1072	48.328	17.416	22.229	1.00	34.64
ATOM	1694	SD	MET	1072	48.977	17.610	23.948	1.00	35.65
ATOM	1695	CE	MET	1072	50.667	17.842	23.669	1.00	27.97
ATOM	1696	C	MET	1072	49.697	15.215	19.388	1.00	25.43
ATOM	1697	O	MET	1072	49.798	14.029	19.729	1.00	21.51

FIG. 7(34)

ATOM	1698	N	ALA	1073	50.545	15.800	18.547	1.00	25.55
ATOM	1700	CA	ALA	1073	51.571	15.024	17.874	1.00	29.80
ATOM	1701	CB	ALA	1073	52.369	15.912	16.958	1.00	22.65
ATOM	1702	C	ALA	1073	52.448	14.453	18.989	1.00	34.88
ATOM	1703	O	ALA	1073	52.431	14.970	20.115	1.00	39.38
ATOM	1704	N	PRO	1074	53.183	13.355	18.724	1.00	36.01
ATOM	1705	CD	PRO	1074	53.087	12.450	17.570	1.00	31.55
ATOM	1706	CA	PRO	1074	54.040	12.771	19.769	1.00	36.24
ATOM	1707	CB	PRO	1074	54.544	11.485	19.115	1.00	34.34
ATOM	1708	CG	PRO	1074	53.415	11.137	18.193	1.00	31.88
ATOM	1709	C	PRO	1074	55.189	13.670	20.288	1.00	37.13
ATOM	1710	O	PRO	1074	55.570	13.575	21.447	1.00	34.58
ATOM	1711	N	GLU	1075	55.746	14.533	19.440	1.00	37.40
ATOM	1713	CA	GLU	1075	56.813	15.422	19.884	1.00	40.62
ATOM	1714	CB	GLU	1075	57.598	15.990	18.707	1.00	33.55
ATOM	1715	CG	GLU	1075	56.853	16.957	17.844	1.00	39.40
ATOM	1716	CD	GLU	1075	55.952	16.300	16.828	1.00	43.14
ATOM	1717	OE1	GLU	1075	55.965	15.055	16.720	1.00	49.09
ATOM	1718	OE2	GLU	1075	55.228	17.040	16.124	1.00	44.63
ATOM	1719	C	GLU	1075	56.239	16.546	20.757	1.00	42.73
ATOM	1720	O	GLU	1075	56.903	17.061	21.639	1.00	44.76
ATOM	1721	N	THR	1076	54.982	16.888	20.524	1.00	46.13
ATOM	1723	CA	THR	1076	54.304	17.923	21.283	1.00	46.22
ATOM	1724	CB	THR	1076	52.991	18.319	20.605	1.00	43.95
ATOM	1725	OG1	THR	1076	53.245	18.666	19.230	1.00	46.46
ATOM	1727	CG2	THR	1076	52.361	19.481	21.334	1.00	43.93
ATOM	1728	C	THR	1076	53.991	17.378	22.662	1.00	47.62
ATOM	1729	O	THR	1076	54.175	18.057	23.650	1.00	52.45
ATOM	1730	N	ILE	1077	53.442	16.173	22.717	1.00	47.96
ATOM	1732	CA	ILE	1077	53.123	15.528	23.980	1.00	46.99
ATOM	1733	CB	ILE	1077	52.496	14.151	23.720	1.00	46.43
ATOM	1734	CG2	ILE	1077	52.691	13.232	24.895	1.00	46.16
ATOM	1735	CG1	ILE	1077	51.024	14.306	23.384	1.00	44.29
ATOM	1736	CD1	ILE	1077	50.336	13.010	23.163	1.00	46.43
ATOM	1737	C	ILE	1077	54.418	15.345	24.767	1.00	51.37
ATOM	1738	O	ILE	1077	54.473	15.577	25.974	1.00	52.53
ATOM	1739	N	PHE	1078	55.458	14.931	24.058	1.00	53.41
ATOM	1741	CA	PHE	1078	56.750	14.696	24.672	1.00	58.94
ATOM	1742	CB	PHE	1078	57.506	13.570	23.925	1.00	60.74
ATOM	1743	CG	PHE	1078	56.901	12.184	24.124	1.00	57.84

FIG. 7(35)

ATOM	1744	CD1	PHE	1078	56.068	11.612	23.169	1.00	54.09
ATOM	1745	CD2	PHE	1078	57.127	11.483	25.298	1.00	58.64
ATOM	1746	CE1	PHE	1078	55.478	10.380	23.381	1.00	53.82
ATOM	1747	CE2	PHE	1078	56.539	10.254	25.514	1.00	57.20
ATOM	1748	CZ	PHE	1078	55.711	9.703	24.555	1.00	55.07
ATOM	1749	C	PHE	1078	57.574	15.981	24.767	1.00	63.98
ATOM	1750	O	PHE	1078	57.433	16.738	25.736	1.00	67.06
ATOM	1751	N	ASP	1079	58.356	16.274	23.724	1.00	66.97
ATOM	1753	CA	ASP	1079	59.215	17.472	23.678	1.00	68.09
ATOM	1754	CB	ASP	1079	60.225	17.402	22.501	1.00	66.89
ATOM	1755	CG	ASP	1079	60.174	16.082	21.714	1.00	69.02
ATOM	1756	OD1	ASP	1079	60.254	16.156	20.474	1.00	71.23
ATOM	1757	OD2	ASP	1079	60.089	14.980	22.308	1.00	69.71
ATOM	1758	C	ASP	1079	58.434	18.806	23.599	1.00	67.74
ATOM	1759	O	ASP	1079	59.011	19.848	23.266	1.00	66.85
ATOM	1760	N	ARG	1080	57.137	18.747	23.926	1.00	68.20
ATOM	1762	CA	ARG	1080	56.173	19.858	23.898	1.00	66.60
ATOM	1763	CB	ARG	1080	55.997	20.496	25.279	1.00	67.64
ATOM	1764	CG	ARG	1080	54.529	20.758	25.638	1.00	71.26
ATOM	1765	CD	ARG	1080	53.823	19.481	26.096	1.00	73.66
ATOM	1766	NE	ARG	1080	52.364	19.610	26.226	1.00	75.75
ATOM	1768	CZ	ARG	1080	51.642	18.981	27.157	1.00	74.86
ATOM	1769	NH1	ARG	1080	50.321	19.134	27.211	1.00	69.96
ATOM	1772	NH2	ARG	1080	52.247	18.212	28.060	1.00	72.78
ATOM	1775	C	ARG	1080	56.305	20.920	22.801	1.00	63.93
ATOM	1776	O	ARG	1080	55.861	22.069	22.955	1.00	61.93
ATOM	1777	N	VAL	1081	56.863	20.510	21.667	1.00	61.30
ATOM	1779	CA	VAL	1081	57.034	21.413	20.545	1.00	58.53
ATOM	1780	CB	VAL	1081	58.202	20.951	19.584	1.00	60.54
ATOM	1781	CG1	VAL	1081	59.304	20.266	20.370	1.00	62.35
ATOM	1782	CG2	VAL	1081	57.701	20.043	18.455	1.00	55.04
ATOM	1783	C	VAL	1081	55.713	21.481	19.771	1.00	56.90
ATOM	1784	O	VAL	1081	55.052	20.452	19.560	1.00	57.43
ATOM	1785	N	TYR	1082	55.287	22.699	19.435	1.00	51.51
ATOM	1787	CA	TYR	1082	54.078	22.909	18.641	1.00	41.08
ATOM	1788	CB	TYR	1082	53.092	23.847	19.332	1.00	37.59
ATOM	1789	CG	TYR	1082	52.275	23.238	20.442	1.00	32.41
ATOM	1790	CD1	TYR	1082	52.800	23.135	21.721	1.00	38.13
ATOM	1791	CE1	TYR	1082	52.043	22.663	22.781	1.00	38.73
ATOM	1792	CD2	TYR	1082	50.961	22.843	20.234	1.00	27.91

FIG. 7(36)

ATOM	1793	CE2	TYR	1082	50.189	22.374	21.287	1.00	33.59
ATOM	1794	CZ	TYR	1082	50.739	22.290	22.572	1.00	36.82
ATOM	1795	OH	TYR	1082	50.001	21.874	23.679	1.00	39.60
ATOM	1797	C	TYR	1082	54.591	23.598	17.410	1.00	34.81
ATOM	1798	O	TYR	1082	55.240	24.608	17.545	1.00	33.62
ATOM	1799	N	THR	1083	54.394	22.997	16.236	1.00	34.71
ATOM	1801	CA	THR	1083	54.819	23.573	14.946	1.00	30.90
ATOM	1802	CB	THR	1083	56.106	22.894	14.384	1.00	29.46
ATOM	1803	OG1	THR	1083	55.789	21.598	13.837	1.00	30.18
ATOM	1805	CG2	THR	1083	57.159	22.768	15.486	1.00	21.74
ATOM	1806	C	THR	1083	53.678	23.371	13.946	1.00	27.79
ATOM	1807	O	THR	1083	52.651	22.777	14.293	1.00	28.80
ATOM	1808	N	ILE	1084	53.804	23.869	12.721	1.00	24.37
ATOM	1810	CA	ILE	1084	52.700	23.615	11.797	1.00	27.69
ATOM	1811	CB	ILE	1084	52.739	24.381	10.465	1.00	28.65
ATOM	1812	CG2	ILE	1084	51.450	25.166	10.284	1.00	29.19
ATOM	1813	CG1	ILE	1084	53.977	25.259	10.361	1.00	37.75
ATOM	1814	CD1	ILE	1084	55.235	24.517	9.985	1.00	46.61
ATOM	1815	C	ILE	1084	52.689	22.143	11.459	1.00	26.44
ATOM	1816	O	ILE	1084	51.627	21.589	11.173	1.00	24.29
ATOM	1817	N	GLN	1085	53.861	21.507	11.518	1.00	25.11
ATOM	1819	CA	GLN	1085	53.920	20.097	11.188	1.00	24.39
ATOM	1820	CB	GLN	1085	55.315	19.612	10.823	1.00	27.61
ATOM	1821	CG	GLN	1085	55.753	20.012	9.411	1.00	33.25
ATOM	1822	CD	GLN	1085	54.653	19.826	8.347	1.00	34.07
ATOM	1823	OE1	GLN	1085	53.943	20.779	8.004	1.00	41.60
ATOM	1824	NE2	GLN	1085	54.546	18.632	7.797	1.00	28.88
ATOM	1827	C	GLN	1085	53.296	19.267	12.258	1.00	23.23
ATOM	1828	O	GLN	1085	52.900	18.141	11.981	1.00	25.97
ATOM	1829	N	SER	1086	53.195	19.798	13.480	1.00	20.86
ATOM	1831	CA	SER	1086	52.488	19.040	14.507	1.00	18.08
ATOM	1832	CB	SER	1086	53.044	19.256	15.926	1.00	20.91
ATOM	1833	OG	SER	1086	52.870	20.559	16.440	1.00	21.60
ATOM	1835	C	SER	1086	50.962	19.336	14.353	1.00	20.67
ATOM	1836	O	SER	1086	50.138	18.531	14.806	1.00	13.79
ATOM	1837	N	ASP	1087	50.602	20.415	13.609	1.00	18.68
ATOM	1839	CA	ASP	1087	49.190	20.793	13.324	1.00	11.08
ATOM	1840	CB	ASP	1087	49.038	22.249	12.805	1.00	21.08
ATOM	1841	CG	ASP	1087	48.845	23.287	13.920	1.00	23.79
ATOM	1842	OD1	ASP	1087	49.348	24.407	13.745	1.00	31.01

FIG. 7(37)

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ATOM  1843 OD2 ASP 1087      48.212  23.013  14.967  1.00 28.91
ATOM  1844 C   ASP 1087      48.632  19.860  12.261  1.00 11.16
ATOM  1845 O   ASP 1087      47.406  19.640  12.177  1.00 12.65
ATOM  1846 N   VAL 1088      49.520  19.390  11.390  1.00  9.61
ATOM  1848 CA  VAL 1088      49.181  18.404  10.345  1.00 13.37
ATOM  1849 CB  VAL 1088      50.351  18.195   9.389  1.00 15.40
ATOM  1850 CG1 VAL 1088      50.057  17.067   8.486  1.00 14.68
ATOM  1851 CG2 VAL 1088      50.609  19.477   8.587  1.00 10.67
ATOM  1852 C   VAL 1088      48.839  17.061  11.014  1.00 13.67
ATOM  1853 O   VAL 1088      47.897  16.387  10.618  1.00 15.00
ATOM  1854 N   TRP 1089      49.618  16.668  12.015  1.00 12.30
ATOM  1856 CA  TRP 1089      49.301  15.460  12.748  1.00 12.96
ATOM  1857 CB  TRP 1089      50.236  15.279  13.960  1.00 16.98
ATOM  1858 CG  TRP 1089      49.764  14.195  14.887  1.00 18.14
ATOM  1859 CD2 TRP 1089      50.325  12.884  15.031  1.00 18.48
ATOM  1860 CE2 TRP 1089      49.476  12.162  15.893  1.00 20.05
ATOM  1861 CE3 TRP 1089      51.460  12.245  14.503  1.00 22.61
ATOM  1862 CD1 TRP 1089      48.640  14.215  15.657  1.00 18.89
ATOM  1863 NE1 TRP 1089      48.451  12.995  16.255  1.00 19.54
ATOM  1865 CZ2 TRP 1089      49.725  10.839  16.249  1.00 20.08
ATOM  1866 CZ3 TRP 1089      51.709  10.927  14.855  1.00 17.00
ATOM  1867 CH2 TRP 1089      50.846  10.243  15.722  1.00 23.71
ATOM  1868 C   TRP 1089      47.873  15.711  13.207  1.00 14.68
ATOM  1869 O   TRP 1089      46.987  14.958  12.842  1.00 20.33
ATOM  1870 N   SER 1090      47.636  16.823  13.923  1.00 18.59
ATOM  1872 CA  SER 1090      46.287  17.209  14.413  1.00 15.54
ATOM  1873 CB  SER 1090      46.297  18.603  15.043  1.00 12.20
ATOM  1874 OG  SER 1090      47.066  18.621  16.237  1.00 18.86
ATOM  1876 C   SER 1090      45.256  17.190  13.309  1.00 16.50
ATOM  1877 O   SER 1090      44.128  16.691  13.487  1.00 18.14
ATOM  1878 N   PHE 1091      45.635  17.745  12.158  1.00 23.35
ATOM  1880 CA  PHE 1091      44.746  17.776  10.997  1.00 20.78
ATOM  1881 CB  PHE 1091      45.445  18.399   9.786  1.00 17.07
ATOM  1882 CG  PHE 1091      44.533  18.524   8.598  1.00 21.98
ATOM  1883 CD1 PHE 1091      43.396  19.347   8.666  1.00 17.34
ATOM  1884 CD2 PHE 1091      44.740  17.754   7.460  1.00 19.42
ATOM  1885 CE1 PHE 1091      42.485  19.398   7.641  1.00 15.43
ATOM  1886 CE2 PHE 1091      43.829  17.792   6.421  1.00 18.06
ATOM  1887 CZ  PHE 1091      42.693  18.618   6.509  1.00 19.76
ATOM  1888 C   PHE 1091      44.306  16.332  10.667  1.00 17.25
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FIG. 7(38)

ATOM	1889	O	PHE	1091	43.147	16.077	10.334	1.00	15.79
ATOM	1890	N	GLY	1092	45.258	15.408	10.812	1.00	19.49
ATOM	1892	CA	GLY	1092	45.042	13.988	10.577	1.00	18.11
ATOM	1893	C	GLY	1092	44.029	13.429	11.544	1.00	19.35
ATOM	1894	O	GLY	1092	43.235	12.581	11.137	1.00	24.23
ATOM	1895	N	VAL	1093	44.073	13.836	12.819	1.00	18.53
ATOM	1897	CA	VAL	1093	43.055	13.392	13.788	1.00	20.09
ATOM	1898	CB	VAL	1093	43.389	13.752	15.298	1.00	15.18
ATOM	1899	CG1	VAL	1093	42.421	13.051	16.187	1.00	17.08
ATOM	1900	CG2	VAL	1093	44.778	13.310	15.698	1.00	11.27
ATOM	1901	C	VAL	1093	41.661	13.971	13.376	1.00	22.42
ATOM	1902	O	VAL	1093	40.649	13.253	13.396	1.00	26.19
ATOM	1903	N	LEU	1094	41.618	15.235	12.938	1.00	23.95
ATOM	1905	CA	LEU	1094	40.363	15.893	12.484	1.00	19.63
ATOM	1906	CB	LEU	1094	40.667	17.338	12.050	1.00	25.24
ATOM	1907	CG	LEU	1094	39.587	18.420	11.974	1.00	27.30
ATOM	1908	CD1	LEU	1094	40.136	19.497	11.113	1.00	28.26
ATOM	1909	CD2	LEU	1094	38.265	17.929	11.385	1.00	27.54
ATOM	1910	C	LEU	1094	39.775	15.146	11.280	1.00	16.12
ATOM	1911	O	LEU	1094	38.555	15.002	11.129	1.00	16.14
ATOM	1912	N	LEU	1095	40.631	14.766	10.348	1.00	16.30
ATOM	1914	CA	LEU	1095	40.155	14.003	9.195	1.00	17.98
ATOM	1915	CB	LEU	1095	41.321	13.538	8.317	1.00	16.52
ATOM	1916	CG	LEU	1095	41.981	14.536	7.386	1.00	14.88
ATOM	1917	CD1	LEU	1095	42.807	13.734	6.399	1.00	11.81
ATOM	1918	CD2	LEU	1095	40.931	15.401	6.639	1.00	21.08
ATOM	1919	C	LEU	1095	39.437	12.770	9.722	1.00	17.52
ATOM	1920	O	LEU	1095	38.324	12.448	9.270	1.00	16.23
ATOM	1921	N	TRP	1096	40.077	12.105	10.697	1.00	14.50
ATOM	1923	CA	TRP	1096	39.509	10.916	11.304	1.00	14.02
ATOM	1924	CB	TRP	1096	40.452	10.330	12.337	1.00	13.21
ATOM	1925	CG	TRP	1096	40.010	8.992	12.850	1.00	18.93
ATOM	1926	CD2	TRP	1096	39.016	8.732	13.856	1.00	24.77
ATOM	1927	CE2	TRP	1096	38.952	7.319	14.020	1.00	27.07
ATOM	1928	CE3	TRP	1096	38.178	9.546	14.647	1.00	29.39
ATOM	1929	CD1	TRP	1096	40.483	7.781	12.460	1.00	21.28
ATOM	1930	NE1	TRP	1096	39.854	6.770	13.154	1.00	18.61
ATOM	1932	CZ2	TRP	1096	38.075	6.700	14.954	1.00	28.21
ATOM	1933	CZ3	TRP	1096	37.303	8.927	15.581	1.00	29.42
ATOM	1934	CH2	TRP	1096	37.266	7.511	15.719	1.00	27.60

FIG. 7(39)

ATOM	1935	C	TRP	1096	38.159	11.236	11.927	1.00	18.94
ATOM	1936	O	TRP	1096	37.212	10.439	11.826	1.00	22.31
ATOM	1937	N	GLU	1097	38.046	12.385	12.592	1.00	23.97
ATOM	1939	CA	GLU	1097	36.754	12.750	13.195	1.00	21.61
ATOM	1940	CB	GLU	1097	36.823	14.012	14.041	1.00	26.60
ATOM	1941	CG	GLU	1097	37.880	14.065	15.109	1.00	21.55
ATOM	1942	CD	GLU	1097	37.795	15.380	15.800	1.00	23.56
ATOM	1943	OE1	GLU	1097	36.726	15.591	16.393	1.00	21.97
ATOM	1944	OE2	GLU	1097	38.741	16.208	15.706	1.00	20.79
ATOM	1945	C	GLU	1097	35.744	13.010	12.116	1.00	19.15
ATOM	1946	O	GLU	1097	34.549	12.766	12.304	1.00	28.35
ATOM	1947	N	ILE	1098	36.190	13.565	11.001	1.00	17.99
ATOM	1949	CA	ILE	1098	35.244	13.821	9.915	1.00	17.98
ATOM	1950	CB	ILE	1098	35.862	14.650	8.732	1.00	13.59
ATOM	1951	CG2	ILE	1098	34.880	14.725	7.568	1.00	13.47
ATOM	1952	CG1	ILE	1098	36.169	16.074	9.181	1.00	11.46
ATOM	1953	CD1	ILE	1098	36.691	16.960	8.074	1.00	9.72
ATOM	1954	C	ILE	1098	34.645	12.529	9.372	1.00	16.07
ATOM	1955	O	ILE	1098	33.444	12.445	9.171	1.00	18.22
ATOM	1956	N	PHE	1099	35.460	11.499	9.171	1.00	20.11
ATOM	1958	CA	PHE	1099	34.925	10.257	8.601	1.00	18.95
ATOM	1959	CB	PHE	1099	35.909	9.660	7.625	1.00	16.86
ATOM	1960	CG	PHE	1099	36.269	10.584	6.517	1.00	12.61
ATOM	1961	CD1	PHE	1099	37.308	11.468	6.671	1.00	14.37
ATOM	1962	CD2	PHE	1099	35.522	10.624	5.362	1.00	18.03
ATOM	1963	CE1	PHE	1099	37.595	12.369	5.717	1.00	13.66
ATOM	1964	CE2	PHE	1099	35.811	11.553	4.378	1.00	16.05
ATOM	1965	CZ	PHE	1099	36.843	12.418	4.568	1.00	17.86
ATOM	1966	C	PHE	1099	34.368	9.201	9.551	1.00	23.18
ATOM	1967	O	PHE	1099	34.111	8.070	9.149	1.00	22.90
ATOM	1968	N	SER	1100	34.274	9.553	10.825	1.00	26.68
ATOM	1970	CA	SER	1100	33.652	8.690	11.820	1.00	24.51
ATOM	1971	CB	SER	1100	34.504	8.572	13.079	1.00	25.60
ATOM	1972	OG	SER	1100	34.826	9.842	13.625	1.00	29.76
ATOM	1974	C	SER	1100	32.398	9.465	12.145	1.00	26.92
ATOM	1975	O	SER	1100	31.765	9.211	13.157	1.00	31.32
ATOM	1976	N	LEU	1101	32.018	10.387	11.251	1.00	28.15
ATOM	1978	CA	LEU	1101	30.860	11.241	11.453	1.00	24.97
ATOM	1979	CB	LEU	1101	29.556	10.557	11.015	1.00	22.00
ATOM	1980	CG	LEU	1101	29.423	10.410	9.495	1.00	25.66

FIG. 7(40)

ATOM	1981	CD1	LEU	1101	28.060	9.866	9.127	1.00	22.23
ATOM	1982	CD2	LEU	1101	29.632	11.768	8.829	1.00	32.30
ATOM	1983	C	LEU	1101	30.771	11.779	12.888	1.00	26.64
ATOM	1984	O	LEU	1101	29.793	11.552	13.580	1.00	31.34
ATOM	1985	N	GLY	1102	31.828	12.446	13.336	1.00	24.93
ATOM	1987	CA	GLY	1102	31.836	13.057	14.650	1.00	28.61
ATOM	1988	C	GLY	1102	32.129	12.293	15.917	1.00	32.38
ATOM	1989	O	GLY	1102	31.647	12.693	16.950	1.00	35.69
ATOM	1990	N	ALA	1103	33.004	11.291	15.876	1.00	35.95
ATOM	1992	CA	ALA	1103	33.354	10.500	17.060	1.00	31.27
ATOM	1993	CB	ALA	1103	33.515	9.041	16.672	1.00	36.15
ATOM	1994	C	ALA	1103	34.625	10.972	17.747	1.00	34.29
ATOM	1995	O	ALA	1103	35.382	11.788	17.190	1.00	36.92
ATOM	1996	N	SER	1104	34.886	10.417	18.934	1.00	33.11
ATOM	1998	CA	SER	1104	36.087	10.744	19.715	1.00	35.13
ATOM	1999	CB	SER	1104	35.906	10.422	21.207	1.00	38.40
ATOM	2000	OG	SER	1104	34.719	10.964	21.765	1.00	50.36
ATOM	2002	C	SER	1104	37.216	9.852	19.249	1.00	34.54
ATOM	2003	O	SER	1104	37.039	8.640	19.167	1.00	33.44
ATOM	2004	N	PRO	1105	38.395	10.434	18.963	1.00	32.93
ATOM	2005	CD	PRO	1105	38.678	11.877	18.972	1.00	31.54
ATOM	2006	CA	PRO	1105	39.571	9.693	18.513	1.00	29.88
ATOM	2007	CB	PRO	1105	40.633	10.781	18.465	1.00	22.24
ATOM	2008	CG	PRO	1105	39.883	11.965	18.079	1.00	28.04
ATOM	2009	C	PRO	1105	39.919	8.659	19.582	1.00	32.54
ATOM	2010	O	PRO	1105	39.480	8.795	20.731	1.00	28.79
ATOM	2011	N	TYR	1106	40.700	7.648	19.196	1.00	34.52
ATOM	2013	CA	TYR	1106	41.148	6.564	20.085	1.00	39.62
ATOM	2014	CB	TYR	1106	42.374	6.994	20.896	1.00	37.66
ATOM	2015	CG	TYR	1106	43.496	7.566	20.059	1.00	39.50
ATOM	2016	CD1	TYR	1106	43.690	8.957	19.976	1.00	37.50
ATOM	2017	CE1	TYR	1106	44.655	9.518	19.143	1.00	35.61
ATOM	2018	CD2	TYR	1106	44.315	6.739	19.293	1.00	34.54
ATOM	2019	CE2	TYR	1106	45.305	7.290	18.446	1.00	38.80
ATOM	2020	CZ	TYR	1106	45.466	8.686	18.373	1.00	38.23
ATOM	2021	OH	TYR	1106	46.412	9.240	17.520	1.00	31.37
ATOM	2023	C	TYR	1106	40.022	6.128	21.016	1.00	47.24
ATOM	2024	O	TYR	1106	40.100	6.296	22.247	1.00	46.94
ATOM	2025	N	PRO	1107	38.947	5.570	20.431	1.00	52.30
ATOM	2026	CD	PRO	1107	38.880	5.234	18.996	1.00	52.76

FIG. 7(41)

ATOM	2027	CA	PRO	1107	37.750	5.088	21.125	1.00	55.67
ATOM	2028	CB	PRO	1107	37.078	4.223	20.066	1.00	55.09
ATOM	2029	CG	PRO	1107	37.420	4.931	18.797	1.00	52.62
ATOM	2030	C	PRO	1107	38.035	4.300	22.408	1.00	60.55
ATOM	2031	O	PRO	1107	38.668	3.231	22.377	1.00	60.88
ATOM	2032	N	GLY	1108	37.631	4.894	23.533	1.00	62.85
ATOM	2034	CA	GLY	1108	37.790	4.284	24.845	1.00	63.10
ATOM	2035	C	GLY	1108	39.171	3.783	25.228	1.00	61.44
ATOM	2036	O	GLY	1108	39.319	3.010	26.178	1.00	63.49
ATOM	2037	N	VAL	1109	40.181	4.228	24.498	1.00	58.31
ATOM	2039	CA	VAL	1109	41.548	3.835	24.766	1.00	55.54
ATOM	2040	CB	VAL	1109	42.430	4.181	23.580	1.00	54.11
ATOM	2041	CG1	VAL	1109	43.857	3.787	23.857	1.00	51.33
ATOM	2042	CG2	VAL	1109	41.875	3.528	22.306	1.00	54.09
ATOM	2043	C	VAL	1109	42.006	4.657	25.949	1.00	57.04
ATOM	2044	O	VAL	1109	41.492	5.749	26.163	1.00	57.18
ATOM	2045	N	LYS	1110	42.969	4.140	26.711	1.00	59.43
ATOM	2047	CA	LYS	1110	43.497	4.849	27.880	1.00	60.27
ATOM	2048	CB	LYS	1110	43.928	3.842	28.936	1.00	63.70
ATOM	2049	C	LYS	1110	44.664	5.796	27.538	1.00	60.52
ATOM	2050	O	LYS	1110	45.570	5.410	26.780	1.00	61.06
ATOM	2051	N	ILE	1111	44.665	7.006	28.115	1.00	58.79
ATOM	2053	CA	ILE	1111	45.732	7.987	27.859	1.00	60.01
ATOM	2054	CB	ILE	1111	45.236	9.441	27.886	1.00	63.41
ATOM	2055	CG2	ILE	1111	44.517	9.798	26.596	1.00	58.31
ATOM	2056	CG1	ILE	1111	44.413	9.688	29.145	1.00	69.87
ATOM	2057	CD1	ILE	1111	44.341	11.144	29.528	1.00	75.64
ATOM	2058	C	ILE	1111	46.949	7.891	28.781	1.00	58.91
ATOM	2059	O	ILE	1111	47.670	8.862	28.992	1.00	59.56
ATOM	2060	N	ASP	1112	47.187	6.697	29.299	1.00	60.43
ATOM	2062	CA	ASP	1112	48.312	6.407	30.173	1.00	56.25
ATOM	2063	CB	ASP	1112	48.318	4.919	30.421	1.00	59.88
ATOM	2064	CG	ASP	1112	48.273	4.131	29.122	1.00	67.87
ATOM	2065	OD1	ASP	1112	47.179	3.893	28.564	1.00	71.34
ATOM	2066	OD2	ASP	1112	49.348	3.765	28.628	1.00	72.11
ATOM	2067	C	ASP	1112	49.612	6.795	29.489	1.00	54.37
ATOM	2068	O	ASP	1112	49.634	7.066	28.284	1.00	50.67
ATOM	2069	N	GLU	1113	50.710	6.741	30.236	1.00	55.36
ATOM	2071	CA	GLU	1113	52.024	7.089	29.683	1.00	55.99
ATOM	2072	CB	GLU	1113	53.051	7.374	30.806	1.00	58.69

FIG. 7(42)

ATOM	2073	C	GLU	1113	52.552	6.015	28.726	1.00	54.42
ATOM	2074	O	GLU	1113	53.624	6.175	28.126	1.00	51.91
ATOM	2075	N	GLU	1114	51.822	4.903	28.627	1.00	51.54
ATOM	2077	CA	GLU	1114	52.192	3.819	27.719	1.00	54.36
ATOM	2078	CB	GLU	1114	51.873	2.452	28.322	1.00	56.43
ATOM	2079	CG	GLU	1114	53.072	1.749	28.948	1.00	63.29
ATOM	2080	CD	GLU	1114	53.996	2.661	29.772	1.00	67.36
ATOM	2081	OE1	GLU	1114	55.153	2.870	29.329	1.00	67.34
ATOM	2082	OE2	GLU	1114	53.590	3.127	30.873	1.00	68.20
ATOM	2083	C	GLU	1114	51.440	4.031	26.412	1.00	52.22
ATOM	2084	O	GLU	1114	51.830	3.514	25.360	1.00	51.74
ATOM	2085	N	PHE	1115	50.383	4.840	26.486	1.00	49.67
ATOM	2087	CA	PHE	1115	49.603	5.175	25.320	1.00	44.59
ATOM	2088	CB	PHE	1115	48.400	6.013	25.688	1.00	44.73
ATOM	2089	CG	PHE	1115	47.918	6.890	24.579	1.00	49.93
ATOM	2090	CD1	PHE	1115	48.140	8.270	24.621	1.00	50.02
ATOM	2091	CD2	PHE	1115	47.251	6.344	23.477	1.00	53.38
ATOM	2092	CE1	PHE	1115	47.704	9.098	23.577	1.00	52.88
ATOM	2093	CE2	PHE	1115	46.805	7.158	22.425	1.00	51.00
ATOM	2094	CZ	PHE	1115	47.033	8.535	22.474	1.00	54.64
ATOM	2095	C	PHE	1115	50.582	5.981	24.507	1.00	46.08
ATOM	2096	O	PHE	1115	50.929	5.572	23.402	1.00	47.48
ATOM	2097	N	CYS	1116	51.127	7.047	25.101	1.00	43.91
ATOM	2099	CA	CYS	1116	52.109	7.898	24.404	1.00	45.79
ATOM	2100	CB	CYS	1116	52.473	9.113	25.247	1.00	44.47
ATOM	2101	SG	CYS	1116	51.129	9.723	26.295	1.00	64.10
ATOM	2102	C	CYS	1116	53.392	7.140	24.019	1.00	46.03
ATOM	2103	O	CYS	1116	54.232	7.667	23.279	1.00	46.86
ATOM	2104	N	ARG	1117	53.536	5.911	24.529	1.00	44.91
ATOM	2106	CA	ARG	1117	54.688	5.069	24.237	1.00	41.89
ATOM	2107	CB	ARG	1117	54.882	4.001	25.308	1.00	43.78
ATOM	2108	CG	ARG	1117	56.237	3.298	25.233	1.00	45.19
ATOM	2109	CD	ARG	1117	56.189	1.905	25.856	1.00	47.09
ATOM	2110	NE	ARG	1117	55.490	0.922	25.021	1.00	49.55
ATOM	2112	CZ	ARG	1117	54.329	0.337	25.336	1.00	51.59
ATOM	2113	NH1	ARG	1117	53.783	-0.547	24.506	1.00	51.49
ATOM	2116	NH2	ARG	1117	53.695	0.649	26.461	1.00	47.17
ATOM	2119	C	ARG	1117	54.370	4.389	22.927	1.00	38.98
ATOM	2120	O	ARG	1117	55.156	4.455	21.996	1.00	42.49
ATOM	2121	N	ARG	1118	53.206	3.751	22.860	1.00	35.52

FIG. 7(43)

ATOM	2123	CA	ARG	1118	52.745	3.072	21.649	1.00	36.78
ATOM	2124	CB	ARG	1118	51.330	2.559	21.880	1.00	31.14
ATOM	2125	CG	ARG	1118	51.216	1.675	23.068	1.00	34.41
ATOM	2126	CD	ARG	1118	49.766	1.587	23.535	1.00	45.83
ATOM	2127	NE	ARG	1118	48.897	0.750	22.693	1.00	53.41
ATOM	2129	CZ	ARG	1118	47.564	0.658	22.826	1.00	55.58
ATOM	2130	NH1	ARG	1118	46.862	-0.144	22.025	1.00	56.70
ATOM	2133	NH2	ARG	1118	46.921	1.380	23.745	1.00	55.55
ATOM	2136	C	ARG	1118	52.742	4.067	20.471	1.00	38.92
ATOM	2137	O	ARG	1118	53.331	3.835	19.400	1.00	38.28
ATOM	2138	N	LEU	1119	52.063	5.186	20.711	1.00	40.67
ATOM	2140	CA	LEU	1119	51.912	6.295	19.779	1.00	36.71
ATOM	2141	CB	LEU	1119	51.192	7.416	20.540	1.00	32.46
ATOM	2142	CG	LEU	1119	50.238	8.508	20.049	1.00	25.91
ATOM	2143	CD1	LEU	1119	51.047	9.651	19.564	1.00	19.62
ATOM	2144	CD2	LEU	1119	49.250	7.993	19.024	1.00	22.26
ATOM	2145	C	LEU	1119	53.301	6.728	19.245	1.00	38.89
ATOM	2146	O	LEU	1119	53.469	6.960	18.047	1.00	43.59
ATOM	2147	N	LYS	1120	54.315	6.771	20.099	1.00	42.22
ATOM	2149	CA	LYS	1120	55.649	7.152	19.640	1.00	41.56
ATOM	2150	CB	LYS	1120	56.523	7.548	20.813	1.00	42.85
ATOM	2151	CG	LYS	1120	57.467	8.670	20.467	1.00	52.51
ATOM	2152	CD	LYS	1120	58.407	8.989	21.620	1.00	60.23
ATOM	2153	CE	LYS	1120	59.298	10.206	21.321	1.00	69.72
ATOM	2154	NZ	LYS	1120	58.605	11.557	21.283	1.00	76.23
ATOM	2158	C	LYS	1120	56.351	6.050	18.825	1.00	43.73
ATOM	2159	O	LYS	1120	57.287	6.342	18.073	1.00	47.49
ATOM	2160	N	GLU	1121	55.892	4.800	18.966	1.00	43.94
ATOM	2162	CA	GLU	1121	56.453	3.636	18.262	1.00	41.07
ATOM	2163	CB	GLU	1121	56.415	2.395	19.147	1.00	48.40
ATOM	2164	CG	GLU	1121	57.553	2.283	20.112	1.00	58.39
ATOM	2165	CD	GLU	1121	57.183	1.451	21.309	1.00	64.79
ATOM	2166	OE1	GLU	1121	56.403	0.483	21.119	1.00	67.43
ATOM	2167	OE2	GLU	1121	57.657	1.778	22.431	1.00	67.24
ATOM	2168	C	GLU	1121	55.739	3.284	16.968	1.00	39.16
ATOM	2169	O	GLU	1121	56.224	2.423	16.216	1.00	39.90
ATOM	2170	N	GLY	1122	54.525	3.805	16.781	1.00	31.72
ATOM	2172	CA	GLY	1122	53.838	3.550	15.531	1.00	22.36
ATOM	2173	C	GLY	1122	52.427	3.064	15.646	1.00	19.85
ATOM	2174	O	GLY	1122	51.791	2.779	14.633	1.00	18.01

FIG. 7(44)

ATOM	2175	N	THR	1123	51.918	2.946	16.860	1.00	16.84
ATOM	2177	CA	THR	1123	50.535	2.502	16.989	1.00	22.17
ATOM	2178	CB	THR	1123	50.209	2.144	18.469	1.00	29.75
ATOM	2179	OG1	THR	1123	51.148	1.174	18.971	1.00	31.60
ATOM	2181	CG2	THR	1123	48.794	1.587	18.591	1.00	31.44
ATOM	2182	C	THR	1123	49.653	3.673	16.453	1.00	23.74
ATOM	2183	O	THR	1123	49.940	4.850	16.721	1.00	18.73
ATOM	2184	N	ARG	1124	48.597	3.354	15.701	1.00	22.93
ATOM	2186	CA	ARG	1124	47.735	4.379	15.125	1.00	17.39
ATOM	2187	CB	ARG	1124	48.094	4.680	13.670	1.00	17.70
ATOM	2188	CG	ARG	1124	49.478	5.192	13.406	1.00	14.57
ATOM	2189	CD	ARG	1124	49.713	6.484	14.040	1.00	14.31
ATOM	2190	NE	ARG	1124	51.046	6.935	13.684	1.00	10.98
ATOM	2192	CZ	ARG	1124	52.067	6.988	14.533	1.00	16.02
ATOM	2193	NH1	ARG	1124	51.861	6.604	15.775	1.00	10.96
ATOM	2196	NH2	ARG	1124	53.269	7.468	14.163	1.00	8.74
ATOM	2199	C	ARG	1124	46.317	3.893	15.096	1.00	16.31
ATOM	2200	O	ARG	1124	46.085	2.698	15.022	1.00	20.38
ATOM	2201	N	MET	1125	45.380	4.847	15.081	1.00	21.15
ATOM	2203	CA	MET	1125	43.943	4.570	15.023	1.00	23.81
ATOM	2204	CB	MET	1125	43.158	5.870	15.012	1.00	16.88
ATOM	2205	CG	MET	1125	42.783	6.397	16.380	1.00	17.08
ATOM	2206	SD	MET	1125	41.656	7.825	16.270	1.00	25.19
ATOM	2207	CE	MET	1125	42.908	9.123	15.776	1.00	17.02
ATOM	2208	C	MET	1125	43.604	3.789	13.749	1.00	29.80
ATOM	2209	O	MET	1125	44.298	3.923	12.748	1.00	33.37
ATOM	2210	N	ARG	1126	42.576	2.953	13.806	1.00	36.07
ATOM	2212	CA	ARG	1126	42.116	2.183	12.668	1.00	36.36
ATOM	2213	CB	ARG	1126	41.465	0.859	13.154	1.00	40.10
ATOM	2214	CG	ARG	1126	40.257	1.021	14.061	1.00	54.46
ATOM	2215	CD	ARG	1126	38.956	1.268	13.263	1.00	65.08
ATOM	2216	NE	ARG	1126	37.839	1.758	14.091	1.00	72.39
ATOM	2218	CZ	ARG	1126	36.545	1.753	13.740	1.00	74.53
ATOM	2219	NH1	ARG	1126	35.636	2.233	14.588	1.00	78.72
ATOM	2222	NH2	ARG	1126	36.140	1.267	12.562	1.00	74.28
ATOM	2225	C	ARG	1126	41.124	3.094	11.888	1.00	32.52
ATOM	2226	O	ARG	1126	40.706	4.117	12.380	1.00	34.88
ATOM	2227	N	ALA	1127	40.760	2.725	10.676	1.00	29.80
ATOM	2229	CA	ALA	1127	39.888	3.508	9.812	1.00	29.83
ATOM	2230	CB	ALA	1127	39.743	2.782	8.460	1.00	32.24

FIG. 7(45)

ATOM	2231	C	ALA	1127	38.518	3.697	10.415	1.00	34.29
ATOM	2232	O	ALA	1127	37.944	2.727	10.881	1.00	39.95
ATOM	2233	N	PRO	1128	37.943	4.934	10.335	1.00	34.66
ATOM	2234	CD	PRO	1128	38.477	6.142	9.685	1.00	35.04
ATOM	2235	CA	PRO	1128	36.612	5.251	10.871	1.00	31.59
ATOM	2236	CB	PRO	1128	36.511	6.776	10.669	1.00	32.56
ATOM	2237	CG	PRO	1128	37.819	7.222	10.499	1.00	31.06
ATOM	2238	C	PRO	1128	35.648	4.597	9.916	1.00	33.99
ATOM	2239	O	PRO	1128	35.975	4.429	8.749	1.00	38.28
ATOM	2240	N	ASP	1129	34.416	4.371	10.344	1.00	31.98
ATOM	2242	CA	ASP	1129	33.425	3.728	9.489	1.00	34.11
ATOM	2243	CB	ASP	1129	32.157	3.432	10.277	1.00	29.91
ATOM	2244	CG	ASP	1129	32.447	2.811	11.623	1.00	34.04
ATOM	2245	OD1	ASP	1129	33.519	2.172	11.805	1.00	35.22
ATOM	2246	OD2	ASP	1129	31.597	2.976	12.515	1.00	36.43
ATOM	2247	C	ASP	1129	33.061	4.360	8.158	1.00	35.75
ATOM	2248	O	ASP	1129	32.441	3.699	7.312	1.00	38.26
ATOM	2249	N	TYR	1130	33.444	5.613	7.925	1.00	32.58
ATOM	2251	CA	TYR	1130	33.056	6.200	6.649	1.00	34.86
ATOM	2252	CB	TYR	1130	32.067	7.332	6.888	1.00	38.26
ATOM	2253	CG	TYR	1130	30.996	6.960	7.889	1.00	37.51
ATOM	2254	CD1	TYR	1130	31.208	7.153	9.245	1.00	36.44
ATOM	2255	CE1	TYR	1130	30.249	6.853	10.148	1.00	40.00
ATOM	2256	CD2	TYR	1130	29.787	6.442	7.468	1.00	39.18
ATOM	2257	CE2	TYR	1130	28.813	6.143	8.360	1.00	34.53
ATOM	2258	CZ	TYR	1130	29.050	6.353	9.709	1.00	39.16
ATOM	2259	OH	TYR	1130	28.120	6.147	10.690	1.00	47.34
ATOM	2261	C	TYR	1130	34.136	6.657	5.732	1.00	34.80
ATOM	2262	O	TYR	1130	33.853	7.257	4.694	1.00	27.05
ATOM	2263	N	THR	1131	35.388	6.414	6.108	1.00	37.58
ATOM	2265	CA	THR	1131	36.457	6.829	5.238	1.00	38.70
ATOM	2266	CB	THR	1131	37.783	6.598	5.763	1.00	39.57
ATOM	2267	OG1	THR	1131	37.775	5.417	6.564	1.00	51.23
ATOM	2269	CG2	THR	1131	38.250	7.775	6.481	1.00	49.58
ATOM	2270	C	THR	1131	36.476	6.071	3.955	1.00	38.19
ATOM	2271	O	THR	1131	35.913	4.967	3.808	1.00	38.82
ATOM	2272	N	THR	1132	37.297	6.649	3.104	1.00	31.58
ATOM	2274	CA	THR	1132	37.638	6.148	1.836	1.00	27.37
ATOM	2275	CB	THR	1132	37.591	7.302	0.887	1.00	18.06
ATOM	2276	OG1	THR	1132	36.274	7.366	0.348	1.00	29.75

FIG. 7(46)

ATOM	2278	CG2	THR	1132	38.528	7.126	-0.161	1.00	32.09
ATOM	2279	C	THR	1132	39.064	5.634	2.159	1.00	31.18
ATOM	2280	O	THR	1132	39.678	6.088	3.149	1.00	37.35
ATOM	2281	N	PRO	1133	39.543	4.601	1.439	1.00	29.49
ATOM	2282	CD	PRO	1133	38.884	3.875	0.336	1.00	28.18
ATOM	2283	CA	PRO	1133	40.876	4.065	1.686	1.00	23.60
ATOM	2284	CB	PRO	1133	41.029	2.998	0.604	1.00	29.05
ATOM	2285	CG	PRO	1133	39.640	2.581	0.319	1.00	28.36
ATOM	2286	C	PRO	1133	41.917	5.122	1.500	1.00	22.87
ATOM	2287	O	PRO	1133	42.944	5.119	2.182	1.00	30.07
ATOM	2288	N	GLU	1134	41.700	5.983	0.511	1.00	18.80
ATOM	2290	CA	GLU	1134	42.656	7.049	0.264	1.00	22.21
ATOM	2291	CB	GLU	1134	42.594	7.573	-1.160	1.00	26.28
ATOM	2292	CG	GLU	1134	41.214	7.564	-1.765	1.00	40.23
ATOM	2293	CD	GLU	1134	40.901	6.347	-2.617	1.00	42.05
ATOM	2294	OE1	GLU	1134	41.727	6.004	-3.504	1.00	44.65
ATOM	2295	OE2	GLU	1134	39.799	5.779	-2.453	1.00	44.07
ATOM	2296	C	GLU	1134	42.547	8.164	1.300	1.00	21.07
ATOM	2297	O	GLU	1134	43.528	8.877	1.543	1.00	20.78
ATOM	2298	N	MET	1135	41.375	8.304	1.940	1.00	20.24
ATOM	2300	CA	MET	1135	41.233	9.304	2.996	1.00	16.52
ATOM	2301	CB	MET	1135	39.775	9.658	3.319	1.00	17.57
ATOM	2302	CG	MET	1135	39.158	10.807	2.420	1.00	15.02
ATOM	2303	SD	MET	1135	40.199	12.320	2.187	1.00	20.17
ATOM	2304	CE	MET	1135	40.632	12.648	3.877	1.00	13.20
ATOM	2305	C	MET	1135	41.974	8.751	4.191	1.00	20.41
ATOM	2306	O	MET	1135	42.772	9.461	4.787	1.00	25.79
ATOM	2307	N	TYR	1136	41.836	7.448	4.445	1.00	20.30
ATOM	2309	CA	TYR	1136	42.565	6.817	5.540	1.00	17.65
ATOM	2310	CB	TYR	1136	42.082	5.394	5.832	1.00	21.89
ATOM	2311	CG	TYR	1136	42.786	4.775	7.041	1.00	26.17
ATOM	2312	CD1	TYR	1136	42.702	5.353	8.325	1.00	20.81
ATOM	2313	CE1	TYR	1136	43.364	4.781	9.427	1.00	17.33
ATOM	2314	CD2	TYR	1136	43.554	3.612	6.900	1.00	26.03
ATOM	2315	CE2	TYR	1136	44.225	3.034	7.998	1.00	12.75
ATOM	2316	CZ	TYR	1136	44.124	3.615	9.245	1.00	16.64
ATOM	2317	OH	TYR	1136	44.791	2.999	10.281	1.00	17.57
ATOM	2319	C	TYR	1136	44.077	6.847	5.267	1.00	14.28
ATOM	2320	O	TYR	1136	44.892	7.066	6.179	1.00	19.62
ATOM	2321	N	GLN	1137	44.479	6.693	4.022	1.00	12.55

FIG. 7(47)

ATOM	2323	CA	GLN	1137	45.903	6.777	3.758	1.00	16.34
ATOM	2324	CB	GLN	1137	46.218	6.412	2.325	1.00	18.36
ATOM	2325	CG	GLN	1137	47.702	6.654	1.945	1.00	21.79
ATOM	2326	CD	GLN	1137	48.613	5.655	2.561	1.00	14.21
ATOM	2327	OE1	GLN	1137	48.416	4.469	2.381	1.00	22.64
ATOM	2328	NE2	GLN	1137	49.571	6.111	3.344	1.00	18.97
ATOM	2331	C	GLN	1137	46.415	8.193	4.041	1.00	20.40
ATOM	2332	O	GLN	1137	47.598	8.378	4.391	1.00	25.11
ATOM	2333	N	THR	1138	45.564	9.194	3.807	1.00	18.65
ATOM	2335	CA	THR	1138	45.939	10.568	4.068	1.00	15.52
ATOM	2336	CB	THR	1138	44.921	11.507	3.538	1.00	19.97
ATOM	2337	OG1	THR	1138	44.797	11.257	2.144	1.00	18.74
ATOM	2339	CG2	THR	1138	45.381	12.939	3.722	1.00	21.70
ATOM	2340	C	THR	1138	46.111	10.721	5.566	1.00	12.73
ATOM	2341	O	THR	1138	47.067	11.344	6.010	1.00	18.83
ATOM	2342	N	MET	1139	45.233	10.118	6.352	1.00	9.32
ATOM	2344	CA	MET	1139	45.402	10.151	7.809	1.00	12.25
ATOM	2345	CB	MET	1139	44.295	9.349	8.480	1.00	13.21
ATOM	2346	CG	MET	1139	42.967	10.007	8.354	1.00	5.60
ATOM	2347	SD	MET	1139	41.708	8.982	9.003	1.00	17.66
ATOM	2348	CE	MET	1139	40.510	9.337	7.925	1.00	2.00
ATOM	2349	C	MET	1139	46.773	9.567	8.198	1.00	15.96
ATOM	2350	O	MET	1139	47.573	10.237	8.855	1.00	17.30
ATOM	2351	N	LEU	1140	47.058	8.333	7.770	1.00	15.29
ATOM	2353	CA	LEU	1140	48.357	7.735	8.081	1.00	14.20
ATOM	2354	CB	LEU	1140	48.542	6.409	7.326	1.00	6.27
ATOM	2355	CG	LEU	1140	47.511	5.373	7.745	1.00	15.42
ATOM	2356	CD1	LEU	1140	47.656	4.103	6.927	1.00	8.64
ATOM	2357	CD2	LEU	1140	47.648	5.103	9.246	1.00	14.99
ATOM	2358	C	LEU	1140	49.518	8.684	7.751	1.00	17.20
ATOM	2359	O	LEU	1140	50.552	8.691	8.442	1.00	18.73
ATOM	2360	N	ASP	1141	49.396	9.413	6.644	1.00	20.16
ATOM	2362	CA	ASP	1141	50.442	10.374	6.229	1.00	19.52
ATOM	2363	CB	ASP	1141	50.139	10.963	4.851	1.00	20.89
ATOM	2364	CG	ASP	1141	50.228	9.942	3.772	1.00	25.01
ATOM	2365	OD1	ASP	1141	50.537	8.765	4.074	1.00	30.17
ATOM	2366	OD2	ASP	1141	49.994	10.321	2.624	1.00	26.42
ATOM	2367	C	ASP	1141	50.627	11.521	7.207	1.00	15.10
ATOM	2368	O	ASP	1141	51.762	11.905	7.502	1.00	8.73
ATOM	2369	N	CYS	1142	49.504	12.101	7.637	1.00	10.75

FIG. 7(48)

ATOM	2371	CA	CYS	1142	49.516	13.196	8.590	1.00	13.88
ATOM	2372	CB	CYS	1142	48.110	13.776	8.739	1.00	17.83
ATOM	2373	SG	CYS	1142	47.414	14.574	7.291	1.00	17.66
ATOM	2374	C	CYS	1142	50.042	12.717	9.961	1.00	15.52
ATOM	2375	O	CYS	1142	50.545	13.513	10.734	1.00	16.31
ATOM	2376	N	TRP	1143	49.883	11.424	10.266	1.00	20.06
ATOM	2378	CA	TRP	1143	50.344	10.830	11.528	1.00	17.66
ATOM	2379	CB	TRP	1143	49.393	9.727	11.991	1.00	15.44
ATOM	2380	CG	TRP	1143	48.041	10.236	12.273	1.00	14.25
ATOM	2381	CD2	TRP	1143	46.814	9.495	12.233	1.00	18.13
ATOM	2382	CE2	TRP	1143	45.774	10.401	12.540	1.00	12.59
ATOM	2383	CE3	TRP	1143	46.490	8.143	11.966	1.00	16.02
ATOM	2384	CD1	TRP	1143	47.710	11.514	12.605	1.00	7.90
ATOM	2385	NE1	TRP	1143	46.355	11.618	12.768	1.00	13.52
ATOM	2387	CZ2	TRP	1143	44.425	10.012	12.592	1.00	8.83
ATOM	2388	CZ3	TRP	1143	45.155	7.755	12.017	1.00	11.61
ATOM	2389	CH2	TRP	1143	44.133	8.691	12.327	1.00	16.83
ATOM	2390	C	TRP	1143	51.765	10.281	11.442	1.00	23.22
ATOM	2391	O	TRP	1143	52.208	9.507	12.298	1.00	27.31
ATOM	2392	N	HIS	1144	52.510	10.722	10.440	1.00	24.48
ATOM	2394	CA	HIS	1144	53.876	10.280	10.299	1.00	26.08
ATOM	2395	CB	HIS	1144	54.495	10.859	9.023	1.00	19.25
ATOM	2396	CG	HIS	1144	55.791	10.214	8.654	1.00	18.57
ATOM	2397	CD2	HIS	1144	56.923	10.003	9.374	1.00	14.60
ATOM	2398	ND1	HIS	1144	56.016	9.657	7.415	1.00	19.61
ATOM	2400	CE1	HIS	1144	57.231	9.133	7.387	1.00	19.99
ATOM	2401	NE2	HIS	1144	57.803	9.332	8.562	1.00	15.04
ATOM	2403	C	HIS	1144	54.710	10.671	11.542	1.00	32.65
ATOM	2404	O	HIS	1144	54.626	11.795	12.031	1.00	31.70
ATOM	2405	N	GLY	1145	55.541	9.734	12.016	1.00	37.26
ATOM	2407	CA	GLY	1145	56.393	9.970	13.168	1.00	31.32
ATOM	2408	C	GLY	1145	57.251	11.212	13.001	1.00	35.04
ATOM	2409	O	GLY	1145	57.372	11.989	13.942	1.00	38.42
ATOM	2410	N	GLU	1146	57.915	11.373	11.852	1.00	34.51
ATOM	2412	CA	GLU	1146	58.735	12.577	11.598	1.00	37.16
ATOM	2413	CB	GLU	1146	59.871	12.303	10.627	1.00	37.16
ATOM	2414	CG	GLU	1146	61.093	11.742	11.292	1.00	50.26
ATOM	2415	CD	GLU	1146	61.186	10.243	11.110	1.00	54.17
ATOM	2416	OE1	GLU	1146	61.158	9.509	12.125	1.00	55.25
ATOM	2417	OE2	GLU	1146	61.280	9.804	9.938	1.00	59.09

FIG. 7(49)

ATOM	2418	C	GLU	1146	57.910	13.742	11.052	1.00	36.46
ATOM	2419	O	GLU	1146	57.378	13.665	9.934	1.00	35.72
ATOM	2420	N	PRO	1147	57.861	14.868	11.791	1.00	34.09
ATOM	2421	CD	PRO	1147	58.490	15.147	13.099	1.00	33.72
ATOM	2422	CA	PRO	1147	57.082	16.020	11.336	1.00	29.77
ATOM	2423	CB	PRO	1147	57.446	17.106	12.351	1.00	27.86
ATOM	2424	CG	PRO	1147	57.668	16.334	13.619	1.00	26.72
ATOM	2425	C	PRO	1147	57.436	16.417	9.922	1.00	27.04
ATOM	2426	O	PRO	1147	56.559	16.784	9.158	1.00	30.21
ATOM	2427	N	SER	1148	58.698	16.255	9.551	1.00	22.56
ATOM	2429	CA	SER	1148	59.177	16.616	8.210	1.00	24.23
ATOM	2430	CB	SER	1148	60.707	16.724	8.203	1.00	27.40
ATOM	2431	OG	SER	1148	61.314	15.477	8.545	1.00	36.19
ATOM	2433	C	SER	1148	58.743	15.674	7.101	1.00	21.41
ATOM	2434	O	SER	1148	58.890	15.964	5.913	1.00	24.41
ATOM	2435	N	GLN	1149	58.272	14.508	7.485	1.00	25.45
ATOM	2437	CA	GLN	1149	57.831	13.547	6.497	1.00	26.28
ATOM	2438	CB	GLN	1149	58.224	12.142	6.946	1.00	32.79
ATOM	2439	CG	GLN	1149	59.705	11.907	6.958	1.00	25.96
ATOM	2440	CD	GLN	1149	60.279	12.196	5.622	1.00	32.77
ATOM	2441	OE1	GLN	1149	59.765	11.744	4.591	1.00	36.63
ATOM	2442	NE2	GLN	1149	61.312	13.007	5.604	1.00	37.86
ATOM	2445	C	GLN	1149	56.327	13.670	6.278	1.00	23.40
ATOM	2446	O	GLN	1149	55.783	13.145	5.306	1.00	23.12
ATOM	2447	N	ARG	1150	55.662	14.339	7.215	1.00	22.72
ATOM	2449	CA	ARG	1150	54.226	14.581	7.132	1.00	17.86
ATOM	2450	CB	ARG	1150	53.721	15.243	8.392	1.00	16.38
ATOM	2451	CG	ARG	1150	54.161	14.532	9.598	1.00	13.96
ATOM	2452	CD	ARG	1150	53.285	14.903	10.728	1.00	15.08
ATOM	2453	NE	ARG	1150	53.632	14.090	11.879	1.00	24.55
ATOM	2455	CZ	ARG	1150	54.066	14.564	13.040	1.00	27.63
ATOM	2456	NH1	ARG	1150	54.192	15.871	13.230	1.00	27.18
ATOM	2459	NH2	ARG	1150	54.423	13.717	13.991	1.00	29.34
ATOM	2462	C	ARG	1150	54.025	15.559	6.008	1.00	16.82
ATOM	2463	O	ARG	1150	54.913	16.382	5.715	1.00	13.09
ATOM	2464	N	PRO	1151	52.873	15.464	5.320	1.00	18.01
ATOM	2465	CD	PRO	1151	51.793	14.453	5.320	1.00	6.32
ATOM	2466	CA	PRO	1151	52.726	16.442	4.240	1.00	18.95
ATOM	2467	CB	PRO	1151	51.489	15.948	3.492	1.00	16.01
ATOM	2468	CG	PRO	1151	50.726	15.092	4.520	1.00	10.59

FIG. 7(50)

ATOM	2469	C	PRO	1151	52.574	17.861	4.805	1.00	18.27
ATOM	2470	O	PRO	1151	52.422	18.039	6.006	1.00	19.70
ATOM	2471	N	THR	1152	52.763	18.860	3.958	1.00	19.16
ATOM	2473	CA	THR	1152	52.604	20.251	4.366	1.00	14.92
ATOM	2474	CB	THR	1152	53.511	21.138	3.560	1.00	13.80
ATOM	2475	OG1	THR	1152	53.146	21.080	2.163	1.00	17.02
ATOM	2477	CG2	THR	1152	54.918	20.697	3.764	1.00	5.40
ATOM	2478	C	THR	1152	51.196	20.571	3.979	1.00	13.16
ATOM	2479	O	THR	1152	50.682	19.905	3.084	1.00	19.18
ATOM	2480	N	PHE	1153	50.561	21.572	4.599	1.00	14.62
ATOM	2482	CA	PHE	1153	49.176	21.910	4.224	1.00	12.87
ATOM	2483	CB	PHE	1153	48.588	23.023	5.083	1.00	11.95
ATOM	2484	CG	PHE	1153	48.157	22.558	6.422	1.00	9.67
ATOM	2485	CD1	PHE	1153	47.037	21.740	6.560	1.00	14.91
ATOM	2486	CD2	PHE	1153	48.891	22.857	7.533	1.00	15.01
ATOM	2487	CE1	PHE	1153	46.660	21.215	7.802	1.00	9.44
ATOM	2488	CE2	PHE	1153	48.529	22.340	8.789	1.00	13.43
ATOM	2489	CZ	PHE	1153	47.405	21.513	8.913	1.00	8.41
ATOM	2490	C	PHE	1153	49.073	22.253	2.750	1.00	16.98
ATOM	2491	O	PHE	1153	48.078	21.927	2.114	1.00	21.60
ATOM	2492	N	SER	1154	50.116	22.841	2.168	1.00	15.39
ATOM	2494	CA	SER	1154	50.031	23.123	0.754	1.00	17.55
ATOM	2495	CB	SER	1154	51.251	23.868	0.254	1.00	25.28
ATOM	2496	OG	SER	1154	51.244	25.190	0.776	1.00	33.35
ATOM	2498	C	SER	1154	49.850	21.815	0.022	1.00	20.26
ATOM	2499	O	SER	1154	48.932	21.704	-0.798	1.00	23.74
ATOM	2500	N	GLU	1155	50.670	20.808	0.347	1.00	19.47
ATOM	2502	CA	GLU	1155	50.534	19.493	-0.307	1.00	16.55
ATOM	2503	CB	GLU	1155	51.588	18.513	0.188	1.00	19.82
ATOM	2504	CG	GLU	1155	52.932	18.773	-0.486	1.00	20.20
ATOM	2505	CD	GLU	1155	54.128	18.210	0.249	1.00	23.11
ATOM	2506	OE1	GLU	1155	55.226	18.377	-0.312	1.00	35.76
ATOM	2507	OE2	GLU	1155	54.009	17.631	1.359	1.00	21.09
ATOM	2508	C	GLU	1155	49.153	18.918	-0.107	1.00	16.59
ATOM	2509	O	GLU	1155	48.548	18.414	-1.055	1.00	21.37
ATOM	2510	N	LEU	1156	48.619	19.034	1.101	1.00	16.01
ATOM	2512	CA	LEU	1156	47.272	18.532	1.375	1.00	18.06
ATOM	2513	CB	LEU	1156	46.969	18.521	2.875	1.00	15.74
ATOM	2514	CG	LEU	1156	47.688	17.493	3.759	1.00	11.35
ATOM	2515	CD1	LEU	1156	47.786	18.049	5.201	1.00	2.08

FIG. 7(51)

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ATOM  2516 CD2 LEU 1156      46.927  16.150   3.708  1.00 14.36
ATOM  2517 C   LEU 1156      46.165  19.287   0.638  1.00 20.03
ATOM  2518 O   LEU 1156      45.105  18.711   0.355  1.00 26.86
ATOM  2519 N   VAL 1157      46.354  20.570   0.355  1.00 21.44
ATOM  2521 CA  VAL 1157      45.303  21.283  -0.362  1.00 21.15
ATOM  2522 CB  VAL 1157      45.513  22.801  -0.381  1.00 21.33
ATOM  2523 CG1 VAL 1157      44.569  23.453  -1.368  1.00 15.98
ATOM  2524 CG2 VAL 1157      45.198  23.340   0.974  1.00 13.87
ATOM  2525 C   VAL 1157      45.270  20.721  -1.760  1.00 22.88
ATOM  2526 O   VAL 1157      44.198  20.508  -2.333  1.00 25.54
ATOM  2527 N   GLU 1158      46.445  20.400  -2.282  1.00 23.10
ATOM  2529 CA  GLU 1158      46.503  19.815  -3.603  1.00 27.24
ATOM  2530 CB  GLU 1158      47.922  19.756  -4.115  1.00 32.82
ATOM  2531 CG  GLU 1158      47.969  18.978  -5.404  1.00 44.73
ATOM  2532 CD  GLU 1158      49.187  19.268  -6.212  1.00 51.53
ATOM  2533 OE1 GLU 1158      49.007  19.887  -7.292  1.00 54.31
ATOM  2534 OE2 GLU 1158      50.298  18.869  -5.765  1.00 51.10
ATOM  2535 C   GLU 1158      45.939  18.403  -3.643  1.00 26.42
ATOM  2536 O   GLU 1158      45.167  18.051  -4.546  1.00 25.91
ATOM  2537 N   HIS 1159      46.347  17.591  -2.669  1.00 26.36
ATOM  2539 CA  HIS 1159      45.897  16.226  -2.611  1.00 21.52
ATOM  2540 CB  HIS 1159      46.674  15.444  -1.576  1.00 25.28
ATOM  2541 CG  HIS 1159      46.322  13.991  -1.545  1.00 24.66
ATOM  2542 CD2 HIS 1159      46.408  13.030  -2.497  1.00 24.44
ATOM  2543 ND1 HIS 1159      45.749  13.387  -0.452  1.00 21.30
ATOM  2545 CE1 HIS 1159      45.489  12.125  -0.731  1.00 23.16
ATOM  2546 NE2 HIS 1159      45.879  11.884  -1.961  1.00 19.88
ATOM  2548 C   HIS 1159      44.402  16.104  -2.391  1.00 21.56
ATOM  2549 O   HIS 1159      43.741  15.311  -3.066  1.00 22.19
ATOM  2550 N   LEU 1160      43.852  16.874  -1.456  1.00 20.25
ATOM  2552 CA  LEU 1160      42.408  16.832  -1.209  1.00 17.66
ATOM  2553 CB  LEU 1160      42.111  17.502   0.130  1.00 17.84
ATOM  2554 CG  LEU 1160      42.676  16.760   1.352  1.00 20.17
ATOM  2555 CD1 LEU 1160      42.472  17.542   2.619  1.00 21.45
ATOM  2556 CD2 LEU 1160      41.992  15.454   1.512  1.00 19.45
ATOM  2557 C   LEU 1160      41.566  17.418  -2.395  1.00 17.71
ATOM  2558 O   LEU 1160      40.426  17.030  -2.624  1.00 15.39
ATOM  2559 N   GLY 1161      42.130  18.356  -3.153  1.00 23.52
ATOM  2561 CA  GLY 1161      41.434  18.879  -4.322  1.00 21.37
ATOM  2562 C   GLY 1161      41.342  17.741  -5.346  1.00 23.91
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FIG. 7(52)

ATOM	2563	O	GLY	1161	40.295	17.526	-5.971	1.00	23.05
ATOM	2564	N	ASN	1162	42.439	16.997	-5.520	1.00	21.49
ATOM	2566	CA	ASN	1162	42.428	15.854	-6.428	1.00	22.31
ATOM	2567	CB	ASN	1162	43.771	15.109	-6.427	1.00	22.34
ATOM	2568	CG	ASN	1162	44.904	15.888	-7.062	1.00	20.03
ATOM	2569	OD1	ASN	1162	44.705	16.903	-7.701	1.00	28.17
ATOM	2570	ND2	ASN	1162	46.117	15.401	-6.873	1.00	32.22
ATOM	2573	C	ASN	1162	41.356	14.851	-5.969	1.00	23.05
ATOM	2574	O	ASN	1162	40.570	14.378	-6.769	1.00	26.11
ATOM	2575	N	LEU	1163	41.360	14.490	-4.688	1.00	21.05
ATOM	2577	CA	LEU	1163	40.405	13.523	-4.166	1.00	19.91
ATOM	2578	CB	LEU	1163	40.695	13.172	-2.689	1.00	19.18
ATOM	2579	CG	LEU	1163	41.675	12.042	-2.275	1.00	18.62
ATOM	2580	CD1	LEU	1163	42.959	12.120	-3.020	1.00	24.35
ATOM	2581	CD2	LEU	1163	41.983	12.043	-0.804	1.00	14.82
ATOM	2582	C	LEU	1163	39.015	14.038	-4.331	1.00	19.71
ATOM	2583	O	LEU	1163	38.110	13.318	-4.767	1.00	23.11
ATOM	2584	N	LEU	1164	38.860	15.328	-4.121	1.00	25.91
ATOM	2586	CA	LEU	1164	37.533	15.941	-4.226	1.00	29.28
ATOM	2587	CB	LEU	1164	37.603	17.388	-3.726	1.00	31.25
ATOM	2588	CG	LEU	1164	36.348	18.176	-3.371	1.00	25.75
ATOM	2589	CD1	LEU	1164	35.429	17.396	-2.435	1.00	31.52
ATOM	2590	CD2	LEU	1164	7.018	15.866	-5.653	1.00	30.07
ATOM	2592	O	LEU	1164	35.953	15.330	-5.903	1.00	32.61
ATOM	2593	N	GLN	1165	37.810	16.344	-6.598	1.00	33.76
ATOM	2595	CA	GLN	1165	37.423	16.317	-8.003	1.00	39.95
ATOM	2596	CB	GLN	1165	38.451	17.048	-8.855	1.00	46.90
ATOM	2597	CG	GLN	1165	38.758	18.474	-8.480	1.00	49.81
ATOM	2598	CD	GLN	1165	39.874	19.024	-9.348	1.00	56.23
ATOM	2599	OE1	GLN	1165	41.056	18.945	-8.997	1.00	55.97
ATOM	2600	NE2	GLN	1165	39.508	19.536	-10.518	1.00	60.66
ATOM	2603	C	GLN	1165	37.304	14.898	-8.554	1.00	39.33
ATOM	2604	O	GLN	1165	36.652	14.685	-9.568	1.00	42.09
ATOM	2605	N	ALA	1166	38.059	13.965	-7.988	1.00	36.82
ATOM	2607	CA	ALA	1166	37.994	12.586	-8.441	1.00	34.66
ATOM	2608	CB	ALA	1166	39.096	11.748	-7.814	1.00	32.78
ATOM	2609	C	ALA	1166	36.640	12.103	-7.991	1.00	36.63
ATOM	2610	O	ALA	1166	35.969	11.381	-8.713	1.00	39.47
ATOM	2611	N	ASN	1167	36.226	12.532	-6.800	1.00	40.01
ATOM	2613	CA	ASN	1167	34.911	12.158	-6.264	1.00	42.40

FIG. 7(53)

ATOM	2614	CB	ASN	1167	34.641	12.878	-4.919	1.00	42.99
ATOM	2615	CG	ASN	1167	33.354	12.409	-4.242	1.00	40.80
ATOM	2616	OD1	ASN	1167	32.306	13.046	-4.348	1.00	40.18
ATOM	2617	ND2	ASN	1167	33.436	11.294	-3.532	1.00	36.58
ATOM	2620	C	ASN	1167	33.822	12.498	-7.299	1.00	41.88
ATOM	2621	O	ASN	1167	32.837	11.789	-7.391	1.00	41.83
ATOM	2622	N	ALA	1168	34.057	13.558	-8.085	1.00	45.09
ATOM	2624	CA	ALA	1168	33.187	14.065	-9.160	1.00	46.02
ATOM	2625	CB	ALA	1168	32.507	12.933	-9.929	1.00	45.92
ATOM	2626	C	ALA	1168	32.181	15.123	-8.728	1.00	48.61
ATOM	2628	O	ALA	1168	32.627	16.233	-8.363	1.00	50.20
ATOM	2629	O	HOH	1	46.858	21.496	16.690	1.00	23.54
ATOM	2632	O	HOH	2	49.904	21.605	17.271	1.00	36.65
ATOM	2635	O	HOH	3	49.682	18.133	17.657	1.00	50.47
ATOM	2638	O	HOH	4	56.606	19.394	15.202	1.00	25.28
ATOM	2641	O	HOH	5	57.215	21.949	11.395	1.00	37.66
ATOM	2644	O	HOH	6	56.082	25.850	12.933	1.00	34.63
ATOM	2647	O	HOH	7	52.355	23.016	6.377	1.00	21.45
ATOM	2650	O	HOH	8	51.153	27.376	4.088	1.00	29.93
ATOM	2653	O	HOH	9	44.820	28.454	1.120	1.00	16.47
ATOM	2656	O	HOH	10	46.377	38.321	5.198	1.00	31.93
ATOM	2659	O	HOH	11	43.987	38.133	3.129	1.00	52.41
ATOM	2662	O	HOH	12	53.321	40.451	6.702	1.00	31.88
ATOM	2665	O	HOH	13	44.977	49.530	8.305	1.00	44.56
ATOM	2668	O	HOH	14	44.379	43.338	7.798	1.00	31.72
ATOM	2671	O	HOH	15	39.477	40.232	8.468	1.00	36.65
ATOM	2674	O	HOH	16	41.987	36.751	10.646	1.00	23.26
ATOM	2677	O	HOH	17	41.711	41.873	6.802	1.00	34.79
ATOM	2680	O	HOH	18	29.514	24.656	18.739	1.00	31.43
ATOM	2683	O	HOH	19	27.493	22.351	15.517	1.00	42.03
ATOM	2686	O	HOH	20	24.345	20.097	15.325	1.00	24.92
ATOM	2689	O	HOH	21	32.381	18.452	20.520	1.00	75.12
ATOM	2692	O	HOH	22	31.071	8.282	19.507	1.00	31.68
ATOM	2695	O	HOH	23	33.001	7.742	21.598	1.00	38.67
ATOM	2698	O	HOH	24	34.802	6.439	18.667	1.00	34.24
ATOM	2701	O	HOH	25	32.273	6.932	14.174	1.00	41.21
ATOM	2704	O	HOH	26	34.059	5.245	12.870	1.00	49.30
ATOM	2707	O	HOH	27	38.059	3.432	4.799	1.00	63.69
ATOM	2710	O	HOH	28	41.089	1.841	4.421	1.00	42.86
ATOM	2713	O	HOH	29	45.081	9.234	-0.557	1.00	39.97

FIG. 7(54)

ATOM	2716	O	HOH	30	47.301	11.215	1.271	1.00	58.47
ATOM	2719	O	HOH	31	50.046	14.055	0.168	1.00	37.58
ATOM	2722	O	HOH	32	54.425	8.937	4.821	1.00	36.74
ATOM	2725	O	HOH	33	52.279	7.099	5.152	1.00	13.04
ATOM	2728	O	HOH	34	53.025	7.510	7.740	1.00	25.53
ATOM	2731	O	HOH	35	50.852	6.818	10.462	1.00	18.29
ATOM	2734	O	HOH	36	46.448	7.762	15.254	1.00	9.08
ATOM	2737	O	HOH	37	47.326	3.930	20.460	1.00	34.16
ATOM	2740	O	HOH	38	48.264	12.367	20.804	1.00	22.14
ATOM	2743	O	HOH	39	44.276	8.193	24.312	1.00	40.52
ATOM	2746	O	HOH	40	37.491	11.237	25.975	1.00	38.71
ATOM	2749	O	HOH	41	37.592	13.565	23.164	1.00	44.55
ATOM	2752	O	HOH	42	34.887	12.418	26.235	1.00	50.96
ATOM	2755	O	HOH	43	24.823	15.933	17.377	1.00	33.72
ATOM	2758	O	HOH	44	23.302	7.532	7.049	1.00	57.56
ATOM	2761	O	HOH	45	29.954	11.864	-3.109	1.00	38.05
ATOM	2764	O	HOH	46	42.099	3.812	18.044	1.00	40.12
ATOM	2767	O	HOH	47	38.653	0.737	18.003	1.00	37.30
ATOM	2770	O	HOH	48	34.169	14.465	16.707	1.00	20.01
ATOM	2773	O	HOH	49	37.055	32.622	16.570	1.00	31.20
ATOM	2776	O	HOH	50	29.361	31.729	15.460	1.00	21.90
ATOM	2779	O	HOH	51	25.866	31.495	10.192	1.00	24.50
ATOM	2782	O	HOH	52	23.411	32.276	10.616	1.00	68.85
ATOM	2785	O	HOH	53	22.135	37.404	8.648	1.00	40.22
ATOM	2788	O	HOH	54	28.356	36.997	10.747	1.00	22.41
ATOM	2791	O	HOH	55	29.650	33.190	8.897	1.00	31.98
ATOM	2794	O	HOH	56	34.801	35.904	3.297	1.00	59.73
ATOM	2797	O	HOH	57	24.341	20.715	4.934	1.00	28.10
ATOM	2800	O	HOH	58	37.439	20.236	25.832	1.00	33.07
ATOM	2803	O	HOH	59	32.675	51.977	19.122	1.00	33.52
ATOM	2806	O	HOH	60	32.722	54.003	14.118	1.00	25.01
ATOM	2809	O	HOH	61	29.691	54.769	22.004	1.00	27.32
ATOM	2812	O	HOH	62	21.347	47.577	14.711	1.00	27.85
ATOM	2815	O	HOH	63	25.640	44.257	7.516	1.00	24.71
ATOM	2818	O	HOH	64	24.686	40.916	3.785	1.00	55.13
ATOM	2821	O	HOH	65	33.825	48.721	10.105	1.00	39.11
ATOM	2824	O	HOH	66	39.855	54.415	18.247	1.00	50.97
ATOM	2827	O	HOH	67	36.001	50.053	7.081	1.00	68.99
ATOM	2830	O	HOH	68	37.973	50.651	5.331	1.00	32.12
ATOM	2833	O	HOH	69	40.220	53.227	6.506	1.00	15.02

FIG. 7(55)

ATOM	2836	O	HOH	70	42.258	51.833	6.993	1.00	21.05
ATOM	2839	O	HOH	71	36.813	55.217	13.035	1.00	46.29
ATOM	2842	O	HOH	72	37.030	55.879	15.712	1.00	39.36
ATOM	2845	O	HOH	73	23.054	45.061	23.607	1.00	51.11
ATOM	2848	O	HOH	74	27.075	54.516	6.971	1.00	51.66
ATOM	2851	O	HOH	75	21.634	54.039	13.651	1.00	36.36
ATOM	2854	O	HOH	76	45.158	47.529	30.699	1.00	56.11
ATOM	2857	O	HOH	77	44.469	45.246	36.699	1.00	36.50
ATOM	2860	O	HOH	78	45.882	41.717	36.085	1.00	28.57
ATOM	2863	O	HOH	79	49.406	41.527	34.292	1.00	65.94
ATOM	2866	O	HOH	80	36.134	49.719	26.101	1.00	63.80
ATOM	2869	O	HOH	81	26.884	28.564	16.554	1.00	49.20
ATOM	2872	O	HOH	82	22.079	10.131	13.444	1.00	56.45
ATOM	2875	O	HOH	83	41.225	4.655	30.464	1.00	58.98
ATOM	2878	O	HOH	84	47.309	1.568	10.326	1.00	21.69
ATOM	2881	O	HOH	85	56.613	18.335	6.527	1.00	33.97
ATOM	2884	O	HOH	86	56.196	16.855	3.275	1.00	47.24
ATOM	2887	O	HOH	87	54.826	22.813	0.598	1.00	33.50
ATOM	2890	O	HOH	88	52.962	21.915	-2.351	1.00	66.62
ATOM	2893	O	HOH	89	47.896	24.242	-3.714	1.00	40.99
ATOM	2896	O	HOH	90	40.295	22.360	25.551	1.00	39.81
ATOM	2899	O	HOH	91	40.188	3.202	15.661	1.00	45.97
ATOM	2902	O	HOH	92	45.159	2.965	19.553	1.00	44.25
ATOM	2905	O	HOH	93	36.591	7.772	23.374	1.00	68.23
ATOM	2908	O	HOH	94	34.274	5.197	22.878	1.00	51.62
ATOM	2911	O	HOH	95	41.935	7.033	29.073	1.00	63.23
ATOM	2914	O	HOH	96	20.731	12.105	14.716	1.00	54.80
ATOM	2917	O	HOH	97	23.147	13.682	17.882	1.00	50.81
ATOM	2920	O	HOH	98	35.515	9.509	-3.558	1.00	56.70
ATOM	2923	O	HOH	99	38.933	9.503	-1.231	1.00	32.18
ATOM	2926	O	HOH	100	51.814	24.438	3.703	1.00	52.00
ATOM	2929	O	HOH	101	51.670	28.690	0.838	1.00	42.41
ATOM	2932	O	HOH	102	46.536	30.610	1.750	1.00	45.80
ATOM	2935	O	HOH	103	45.165	34.214	0.818	1.00	46.46
ATOM	2938	O	HOH	104	42.695	35.194	1.055	1.00	25.82
ATOM	2941	O	HOH	105	39.689	33.418	0.723	1.00	31.99
ATOM	2944	O	HOH	106	23.962	38.119	27.549	1.00	47.89
ATOM	2947	O	HOH	107	25.343	40.908	27.379	1.00	54.09
ATOM	2950	O	HOH	108	20.307	35.738	19.866	1.00	32.61
ATOM	2953	O	HOH	109	28.085	54.303	18.810	1.00	61.58

FIG. 7(56)

ATOM	2956	O	HOH	110	29.849	56.131	16.966	1.00	37.29
ATOM	2959	O	HOH	111	31.503	58.023	14.735	1.00	46.45
ATOM	2962	O	HOH	112	35.212	55.981	10.499	1.00	92.07
ATOM	2965	O	HOH	113	36.530	55.812	6.656	1.00	30.72
ATOM	2968	O	HOH	114	50.045	41.251	26.059	1.00	82.26
ATOM	2971	O	HOH	115	25.153	36.460	9.054	1.00	50.86
ATOM	2974	O	HOH	116	31.749	32.705	15.359	1.00	30.04
ATOM	2977	O	HOH	117	30.213	3.806	4.940	1.00	39.74
ATOM	2980	O	HOH	118	36.511	1.159	7.275	1.00	41.62
ATOM	2983	O	HOH	119	27.155	4.637	5.224	1.00	79.92
ATOM	2986	O	HOH	120	57.319	11.287	3.459	1.00	33.02
ATOM	2989	O	HOH	121	52.121	12.483	1.755	1.00	45.55
ATOM	2992	O	HOH	122	47.613	14.088	-5.021	1.00	41.01
ATOM	2995	O	HOH	123	57.550	26.628	16.551	1.00	30.62
ATOM	2998	O	HOH	124	32.338	10.125	23.559	1.00	35.48
ATOM	3001	O	HOH	125	31.065	5.698	3.273	1.00	42.74
ATOM	3004	O	HOH	126	32.603	4.523	1.410	1.00	33.30
ATOM	3007	O	HOH	127	34.394	2.617	4.702	1.00	42.12
ATOM	3010	O	HOH	128	37.961	10.373	-4.287	1.00	47.57
ATOM	3013	O	HOH	129	42.215	11.947	-6.970	1.00	45.13
ATOM	3016	O	HOH	130	46.307	8.952	-4.280	1.00	70.02
ATOM	3019	O	HOH	131	50.369	17.388	-3.277	1.00	42.22
ATOM	3022	O	HOH	132	47.231	21.866	22.930	1.00	50.84
ATOM	3025	O	HOH	133	45.362	17.669	27.147	1.00	48.06
ATOM	3028	O	HOH	134	27.005	23.141	18.124	1.00	49.65
ATOM	3031	O	HOH	135	45.726	12.511	-6.453	1.00	45.31
ATOM	3034	O	HOH	136	46.998	11.755	18.088	1.00	37.38
ATOM	3037	O	HOH	137	39.706	37.699	9.894	1.00	40.71
ATOM	3040	O	HOH	138	18.768	48.678	17.798	1.00	74.62
ATOM	3043	O	HOH	139	43.641	47.080	26.762	1.00	44.64
ATOM	3046	O	HOH	140	32.593	53.980	16.744	1.00	43.95
ATOM	3049	O	HOH	141	34.726	55.568	14.399	1.00	45.86
ATOM	3052	O	HOH	142	30.551	53.227	19.638	1.00	35.99
ATOM	3055	O	HOH	143	26.370	55.161	14.300	1.00	33.09
ATOM	3058	O	HOH	144	24.547	55.803	6.815	1.00	58.70
ATOM	3061	O	HOH	145	36.217	52.574	3.221	1.00	68.48
ATOM	3064	O	HOH	146	39.065	54.455	4.595	1.00	48.85
ATOM	3067	O	HOH	147	45.130	40.725	5.433	1.00	62.58
ATOM	3070	O	HOH	148	33.453	43.988	7.386	1.00	41.59
ATOM	3073	O	HOH	149	36.626	45.045	6.144	1.00	54.04

FIG. 7(57)

ATOM	3076	O	HOH	150	19.458	36.977	14.386	1.00	56.50
ATOM	3079	O	HOH	151	19.502	40.993	17.850	1.00	43.35
ATOM	3082	O	HOH	152	39.793	38.257	27.760	1.00	63.31
ATOM	3085	O	HOH	153	40.730	53.944	20.682	1.00	49.91
ATOM	3088	O	HOH	154	45.371	49.402	5.710	1.00	41.53
ATOM	3091	O	HOH	155	49.114	26.038	11.482	1.00	34.43
ATOM	3094	O	HOH	156	54.085	28.403	10.828	1.00	28.60
ATOM	3097	O	HOH	157	18.729	14.990	12.752	1.00	44.66
ATOM	3100	O	HOH	158	27.500	2.046	10.138	1.00	47.88
ATOM	3103	O	HOH	159	23.505	7.763	16.082	1.00	45.49
ATOM	3106	O	HOH	160	38.101	22.326	23.406	1.00	43.42
ATOM	3109	O	HOH	161	36.788	33.961	0.261	1.00	59.95
ATOM	3112	O	HOH	162	19.380	27.777	6.595	1.00	56.29
ATOM	3115	O	HOH	163	33.583	33.343	17.339	1.00	68.25
ATOM	3118	O	HOH	164	43.221	53.467	17.853	1.00	62.89
ATOM	3121	O	HOH	165	28.154	41.110	29.042	1.00	61.19
ATOM	3124	O	HOH	166	44.877	47.914	12.583	1.00	21.27
ATOM	3127	O	HOH	167	46.589	45.908	14.329	1.00	39.48
ATOM	3130	O	HOH	168	48.235	43.490	14.297	1.00	46.88
ATOM	3133	O	HOH	169	47.834	0.528	14.762	1.00	74.55
ATOM	3136	O	HOH	170	48.711	-2.009	16.386	1.00	52.45
ATOM	3139	O	HOH	171	41.210	0.396	17.381	1.00	58.05
ATOM	3142	O	HOH	172	43.837	1.538	17.483	1.00	72.30
ATOM	3145	O	HOH	173	41.780	-2.478	14.396	1.00	47.15
ATOM	3148	O	HOH	174	31.466	11.699	21.418	1.00	45.99
ATOM	3151	O	HOH	175	35.046	14.218	20.429	1.00	39.37
ATOM	3154	O	HOH	176	22.639	26.143	4.324	1.00	36.80
ATOM	3157	O	HOH	177	26.114	24.452	6.028	1.00	31.04
ATOM	3160	O	HOH	178	28.927	30.687	4.252	1.00	41.38
ATOM	3163	O	HOH	179	23.899	6.610	18.621	1.00	56.43
ATOM	3166	O	HOH	180	53.386	11.969	4.493	1.00	39.86
ATOM	3169	O	HOH	181	30.051	43.727	0.910	1.00	47.97
ATOM	3172	O	HOH	182	31.659	49.099	8.149	1.00	52.84